

5496

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | | | 75 | | | | 80 |
| Ile | Pro | Gly | Pro | Ala | Phe | Asn | Pro | Ala | Ser | His | Pro | Ala | Ser | Ala | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Thr | Ser | Ser | Ser | Ser | Ser | Ala | Phe | Arg | Pro | Val | Met | Pro | Ser | Arg | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | Val | Glu | Arg | Gln | Pro | Arg | Met | Leu | Asp | Phe | Arg | Val | Glu | Tyr | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asp | Arg | Asn | Val | Asp | Val | Val | Leu | Glu | Asp | Thr | Cys | Thr | Val | Gly | Glu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Lys | Gln | Ile | Leu | Glu | Asn | Glu | Leu | Gln | Ile | Pro | Val | Ser | Lys | Met |
| 145 | | | | 150 | | | | | | 155 | | | | | 160 |
| Leu | Leu | Lys | Gly | Trp | Lys | Thr | Gly | Asp | Val | Glu | Asp | Ser | Thr | Val | Leu |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Lys | Ser | Leu | His | Leu | Pro | Lys | Asn | Asn | Ser | Leu | Tyr | Val | Leu | Thr | Pro |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Asp | Leu | Pro | Pro | Pro | Ser | Ser | Ser | Ser | His | Ala | Gly | Ala | Leu | Gln | Glu |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Ser | Leu | Asn | Gln | Asn | Phe | Met | Leu | Ile | Ile | Thr | His | Arg | Glu | Val | Gln |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Arg | Glu | Tyr | Asn | Leu | Asn | Phe | Ser | Gly | Ser | Ser | Thr | Ile | Gln | Glu | Val |
| 225 | | | | 230 | | | | | | 235 | | | | 240 | |
| Lys | Arg | Asn | Val | Tyr | Asp | Leu | Thr | Ser | Ile | Pro | Val | Arg | His | Gln | Leu |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Trp | Glu | Gly | Trp | Pro | Thr | Ser | Ala | Thr | Asp | Asp | Ser | Met | Cys | Leu | Ala |
| | | 260 | | | | | | 265 | | | | | 270 | | |
| Glu | Ser | Gly | Leu | Ser | Tyr | Pro | Cys | His | Arg | Leu | Thr | Val | Gly | Arg | Arg |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ser | Ser | Pro | Ala | Gln | Thr | Arg | Glu | Gln | Ser | Glu | Glu | Gln | Ile | Thr | Asp |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Val | His | Met | Val | Ser | Asp | Ser | Asp | Gly | Asp | Asp | Phe | Glu | Asp | Ala | Thr |
| 305 | | | | 310 | | | | | | 315 | | | | 320 | |
| Glu | Phe | Gly | Val | Asp | Asp | Gly | Glu | Val | Phe | Gly | Met | Ala | Ser | Ser | Ala |
| | | | 325 | | | | | 330 | | | | | | 335 | |
| Leu | Arg | Lys | Ser | Pro | Met | Met | Pro | Glu | Asn | Ala | Glu | Asn | Glu | Gly | Asp |

5497

| | | |
|---|-----|-----|
| 340 | 345 | 350 |
| Ala Leu Leu Gln Phe Thr Ala Glu Phe Ser Ser Arg Tyr Gly Asp Cys | | |
| 355 | 360 | 365 |
| His Pro Val Phe Phe Ile Gly Ser Leu Glu Ala Ala Phe Gln Glu Ala | | |
| 370 | 375 | 380 |
| Phe Tyr Val Lys Ala Arg Asp Arg Lys Leu Leu Ala Ile Tyr Leu His | | |
| 385 | 390 | 395 |
| His Asp Glu Ser Val Leu Thr Asn Val Phe Cys Ser Gln Met Leu Cys | | |
| 405 | 410 | 415 |
| Ala Glu Ser Ile Val Ser Tyr Leu Ser Gln Asn Phe Ile Thr Trp Ala | | |
| 420 | 425 | 430 |
| Trp Asp Leu Thr Lys Asp Ser Asn Arg Ala Arg Phe Leu Thr Met Cys | | |
| 435 | 440 | 445 |
| Asn Arg His Phe Gly Ser Val Val Ala Gln Thr Ile Arg Thr Gln Lys | | |
| 450 | 455 | 460 |
| Thr Asp Gln Phe Pro Leu Phe Leu Ile Ile Met Gly Lys Arg Ser Ser | | |
| 465 | 470 | 475 |
| Asn Glu Val Leu Asn Val Ile Gln Gly Asn Thr Thr Val Asp Glu Leu | | |
| 485 | 490 | 495 |
| Met Met Arg Leu Met Ala Ala Met Glu Ile Phe Thr Ala Gln Gln Gln | | |
| 500 | 505 | 510 |
| Glu Asp Ile Lys Asp Glu Asp Glu Arg Glu Ala Arg Glu Asn Val Lys | | |
| 515 | 520 | 525 |
| Arg Glu Gln Asp Glu Ala Tyr Arg Leu Ser Leu Glu Ala Asp Arg Ala | | |
| 530 | 535 | 540 |
| Lys Arg Glu Ala His Glu Arg Glu Met Ala Glu Gln Phe Arg Leu Glu | | |
| 545 | 550 | 555 |
| Gln Ile Arg Lys Glu Gln Glu Glu Glu Arg Glu Ala Ile Arg Leu Ser | | |
| 565 | 570 | 575 |
| Leu Glu Gln Ala Leu Pro Pro Glu Pro Lys Glu Glu Asn Ala Glu Pro | | |
| 580 | 585 | 590 |
| Val Ser Lys Leu Arg Ile Arg Thr Pro Ser Gly Glu Phe Leu Glu Arg | | |
| 595 | 600 | 605 |
| Arg Phe Leu Ala Ser Asn Lys Leu Gln Ile Val Phe Asp Phe Val Ala | | |

5498

| | | | |
|---|-----|-----|-----|
| 610 | 615 | 620 | |
| Ser Lys Gly Phe Pro Trp Asp Glu Tyr Lys Leu Leu Ser Thr Phe Pro | | | |
| 625 | 630 | 635 | 640 |
| Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser Leu Leu Glu Val | | | |
| | 645 | 650 | 655 |
| Lys Leu Phe Pro Gln Glu Thr Leu Phe Leu Glu Ala Lys Glu | | | |
| | 660 | 665 | 670 |

<210> 6273

<211> 496

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6273

| | | | |
|---|-----|-----|-----|
| Pro Thr Arg Xaa Pro Thr Arg Pro Ala Arg Gly Trp Glu Ala Ile Thr | | | |
| 1 | 5 | 10 | 15 |
| Tyr Leu Ala Leu Arg Lys Lys Thr Lys Ala Ser Met His Ser Phe Pro | | | |
| | 20 | 25 | 30 |
| Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val Ser His Ser Phe Pro | | | |
| | 35 | 40 | 45 |
| Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp Leu Val Gln Lys Tyr | | | |
| | 50 | 55 | 60 |
| Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly Arg Gln Val Glu Lys | | | |
| | 65 | 70 | 75 |
| Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu Lys Gln Met Gln Glu | | | |
| | 85 | 90 | 95 |
| Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp Ala Glu Thr Leu Lys | | | |
| | 100 | 105 | 110 |
| Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp Val Ala Gln Phe Val | | | |
| | 115 | 120 | 125 |
| Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr His Leu Thr Tyr Arg | | | |
| | 130 | 135 | 140 |

5499

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Asn | Tyr | Thr | Pro | Asp | Leu | Pro | Arg | Ala | Asp | Val | Asp | His | Ala | 145 | 150 | 155 | 160 |
| Ile | Glu | Lys | Ala | Phe | Gln | Leu | Trp | Ser | Asn | Val | Thr | Pro | Leu | Thr | Phe | 165 | 170 | 175 | |
| Thr | Lys | Val | Ser | Glu | Gly | Gln | Ala | Asp | Ile | Met | Ile | Ser | Phe | Val | Arg | 180 | 185 | 190 | |
| Gly | Asp | His | Arg | Asp | Asn | Ser | Pro | Phe | Asp | Gly | Pro | Gly | Gly | Asn | Leu | 195 | 200 | 205 | |
| Ala | His | Ala | Phe | Gln | Pro | Gly | Pro | Gly | Ile | Gly | Gly | Asp | Ala | His | Phe | 210 | 215 | 220 | |
| Asp | Glu | Asp | Glu | Arg | Trp | Thr | Asn | Asn | Phe | Arg | Glu | Tyr | Asn | Leu | His | 225 | 230 | 235 | 240 |
| Arg | Val | Ala | Ala | His | Glu | Leu | Gly | His | Ser | Leu | Gly | Leu | Ser | His | Ser | 245 | 250 | 255 | |
| Thr | Asp | Ile | Gly | Ala | Leu | Met | Tyr | Pro | Ser | Tyr | Thr | Phe | Ser | Gly | Asp | 260 | 265 | 270 | |
| Val | Gln | Leu | Ala | Gln | Asp | Asp | Ile | Asp | Gly | Ile | Gln | Ala | Ile | Tyr | Gly | 275 | 280 | 285 | |
| Arg | Ser | Gln | Asn | Pro | Val | Gln | Pro | Ile | Gly | Pro | Gln | Thr | Pro | Lys | Ala | 290 | 295 | 300 | |
| Cys | Asp | Ser | Lys | Leu | Thr | Phe | Asp | Ala | Ile | Thr | Thr | Ile | Arg | Gly | Glu | 305 | 310 | 315 | 320 |
| Val | Met | Phe | Phe | Lys | Asp | Arg | Phe | Tyr | Met | Arg | Thr | Asn | Pro | Phe | Tyr | 325 | 330 | 335 | |
| Pro | Glu | Val | Glu | Leu | Asn | Phe | Ile | Ser | Val | Phe | Trp | Pro | Gln | Leu | Pro | 340 | 345 | 350 | |
| Asn | Gly | Leu | Glu | Ala | Ala | Tyr | Glu | Phe | Ala | Asp | Arg | Asp | Glu | Val | Arg | 355 | 360 | 365 | |
| Phe | Phe | Lys | Gly | Asn | Lys | Tyr | Trp | Ala | Val | Gln | Gly | Gln | Asn | Val | Leu | 370 | 375 | 380 | |
| His | Gly | Tyr | Pro | Lys | Asp | Ile | Tyr | Ser | Ser | Phe | Gly | Phe | Pro | Arg | Thr | 385 | 390 | 395 | 400 |
| Val | Lys | His | Ile | Asp | Ala | Ala | Leu | Ser | Glu | Glu | Asn | Thr | Gly | Lys | Thr | 405 | 410 | 415 | |

5500

Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys Arg
420 425 430

Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro Gly
435 440 445

Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe Tyr
450 455 460

Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys Arg
465 470 475 480

Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys Asn
485 490 495

<210> 6274

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6274

5501

Arg Leu Pro Arg Gln Lys Ser Arg Xaa Lys Leu Ser Xaa Ser His Val
 1 5 10 15
 Thr Gln Xaa Arg Leu Ile Lys Phe Phe Xaa Leu Phe Pro Ile Ile Phe
 20 25 30
 Xaa Met Ser Lys Leu Thr Lys Arg Ser Lys Gly Phe Leu Gly Leu Leu
 35 40 45
 Thr Ser Ser Val Glu Ile Leu Val Leu Cys Gly Gln Gly Lys Ala Lys
 50 55 60
 Ala Phe Leu Phe Ser Leu Cys Tyr Leu Glu Asp Arg Lys Thr Ser Cys
 65 70 75 80
 Leu His Pro Leu Ala Val Cys Arg Ile Thr Leu Ser Leu Arg Tyr
 85 90 95

<210> 6275

<211> 135

<212> PRT

<213> Homo sapiens

<400> 6275

Arg Pro Pro Ile Ser Ser Ala Gly His Leu Pro Gly Val Cys Lys Val
 1 5 10 15
 Ser Thr Asp Leu Leu Arg Glu Gly Ala Pro Ile Glu Pro Asp Pro Pro
 20 25 30
 Val Ser His Trp Lys Pro Glu Ala Val Gln Tyr Tyr Glu Asp Gly Ala
 35 40 45
 Arg Ile Glu Ala Ala Phe Arg Asn Tyr Ile His Arg Ala Asp Ala Arg
 50 55 60
 Gln Glu Glu Asp Ser Tyr Glu Ile Phe Ile Cys His Ala Asn Val Ile
 65 70 75 80
 Arg Tyr Ile Val Cys Arg Ala Leu Gln Phe Pro Pro Glu Gly Trp Leu
 85 90 95
 Arg Leu Ser Leu Asn Asn Gly Ser Ile Thr His Leu Val Ile Arg Pro
 100 105 110
 Asn Gly Arg Val Ala Leu Arg Thr Leu Gly Asp Thr Gly Phe Met Pro
 115 120 125
 Pro Asp Lys Ile Thr Arg Ser

5502

130

135

<210> 6276

<211> 159

<212> PRT

<213> Homo sapiens

<400> 6276

Thr Ser His Ala Arg Phe Gln Ala Leu His Ala Thr Gly Ser Val Leu
1 5 10 15

Ala Ala Ser Ser Leu Ser Trp Asn Ser Ser Ser Gln Leu Leu Leu Pro
20 25 30

Glu Phe Gln Gly Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu
35 40 45

Val Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu
50 55 60

Pro Pro Gln Ala Gln Ala Pro Ala Leu Gly Gln Ala Leu Thr Ala Ile
65 70 75 80

Val Gly Ala Trp Leu Asp His Ile Leu Thr His Gly Ile Arg Phe Arg
85 90 95

Ser Gly Val Lys Val Glu Val Ala Gly Gly Glu Trp Asn Trp Glu Lys
100 105 110

Glu Gly Asp Lys Trp Glu Arg Gln Glu Gly Gln Val Ala Ile Leu Tyr
115 120 125

Leu Cys Leu Gln Pro Ala Gly Ser Ala Ala Ala Gln Thr Arg Leu Trp
130 135 140

Ser Gly Gln Gly Val Ala Gly Arg Gly Ala Val Glu Pro Val Pro
145 150 155

<210> 6277

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

5503

<400> 6277

Ala Gln Gly Ala Ala Trp Xaa Cys Gln Ser Pro Gly Pro Arg Ala Leu
 1 5 10 15

Leu Glu Arg Arg Gln Thr Glu Ala Ala Gly Pro Ala Ser Arg Arg Arg
 20 25 30

Gly Glu Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val
 35 40 45

Leu Val Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys
 50 55 60

Asn Lys Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu
 65 70 75 80

Asn His Met Leu Ser His Cys
 85

<210> 6278

<211> 383

<212> PRT

<213> Homo sapiens

<400> 6278

His Ala Ser Ala His Ala Ser Gly Ala Leu Pro Gly Leu Thr Ala Thr
 1 5 10 15

Pro Glu Ala Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu
 20 25 30

Leu Ile Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe
 35 40 45

Leu Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln
 50 55 60

Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala Ala
 65 70 75 80

Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu Leu Gly
 85 90 95

Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly Phe Phe Leu
 100 105 110

Tyr Pro Lys Lys Ile Ser Gln Ala Ser Ser Cys Leu Gln Lys Leu Leu
 115 120 125

5504

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Asn | Leu | Ser | Ala | Ile | Lys | Glu | Arg | Glu | Gln | Leu | Thr | Leu | Ala | 130 | 135 | 140 | |
| Gln | Leu | Gly | Leu | Asp | Leu | Gly | Pro | Asn | Ser | Tyr | Tyr | Asn | Leu | Gly | Pro | 145 | 150 | 155 | 160 |
| Glu | Leu | Glu | Leu | Ala | Leu | Phe | Leu | Val | Gln | Glu | Pro | His | Val | Trp | Gly | 165 | 170 | 175 | |
| Gln | Thr | Thr | Pro | Lys | Pro | Gly | Lys | Met | Phe | Val | Leu | Arg | Ser | Val | Pro | 180 | 185 | 190 | |
| Trp | Pro | Gln | Gly | Ala | Val | His | Phe | Asn | Leu | Leu | Asp | Val | Ala | Lys | Asp | 195 | 200 | 205 | |
| Trp | Asn | Asp | Asn | Pro | Arg | Lys | Asn | Phe | Gly | Leu | Phe | Leu | Glu | Ile | Leu | 210 | 215 | 220 | |
| Val | Lys | Glu | Asp | Arg | Asp | Ser | Gly | Val | Asn | Phe | Gln | Pro | Glu | Asp | Thr | 225 | 230 | 235 | 240 |
| Cys | Ala | Arg | Leu | Arg | Cys | Ser | Leu | His | Ala | Ser | Leu | Leu | Val | Val | Thr | 245 | 250 | 255 | |
| Leu | Asn | Pro | Asp | Gln | Cys | His | Pro | Ser | Arg | Lys | Arg | Arg | Ala | Ala | Ile | 260 | 265 | 270 | |
| Pro | Val | Pro | Lys | Leu | Ser | Cys | Lys | Asn | Leu | Cys | His | Arg | His | Gln | Leu | 275 | 280 | 285 | |
| Phe | Ile | Asn | Phe | Arg | Asp | Leu | Gly | Trp | His | Lys | Trp | Ile | Ile | Ala | Pro | 290 | 295 | 300 | |
| Lys | Gly | Phe | Met | Ala | Asn | Tyr | Cys | His | Gly | Glu | Cys | Pro | Phe | Ser | Leu | 305 | 310 | 315 | 320 |
| Thr | Ile | Ser | Leu | Asn | Ser | Ser | Asn | Tyr | Ala | Phe | Met | Gln | Ala | Leu | Met | 325 | 330 | 335 | |
| His | Ala | Val | Asp | Pro | Glu | Ile | Pro | Gln | Ala | Val | Cys | Ile | Pro | Thr | Lys | 340 | 345 | 350 | |
| Leu | Ser | Pro | Ile | Ser | Met | Leu | Tyr | Gln | Asp | Asn | Asn | Asp | Asn | Val | Ile | 355 | 360 | 365 | |
| Leu | Arg | His | Tyr | Glu | Asp | Met | Val | Val | Asp | Glu | Cys | Gly | Cys | Gly | | 370 | 375 | 380 | |

5505

<210> 6279

<211> 70

<212> PRT

<213> Homo sapiens

<400> 6279

Arg Gln Arg Arg Lys Gly Gly Gly Asn Asp Ser Arg Pro Lys Trp Pro
 1 5 10 15

His Leu Glu Asp Thr Ser Asp Asp Asn His Cys Tyr Val Cys Ala Ile
 20 25 30

Leu Phe Asn Ser Ala Val Tyr Val Val Asp Lys Leu Tyr Glu Ile Ser
 35 40 45

Ser Leu Ser Arg Tyr Leu Glu Val Leu Asp Val Phe Lys Ser Gly Ser
 50 55 60

Arg Ile Thr Leu Cys Lys
 65 70

<210> 6280

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6280

Gly Thr Thr Asn Ile Phe Tyr Val Val Asn Ser Ile Lys Leu Ala Ser
 1 5 10 15

Phe Gly Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Xaa
 20 25 30

Pro Asn Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val
 35 40 45

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
 50 55 60

5506

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 65 70 75 80
 Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 85 90 95
 Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe Cys
 100 105 110

<210> 6281

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6281

Asn Leu Gly Thr Leu Lys Lys Glu Gln Asp Asn Ser Tyr Val Gln Gly
 1 5 10 15
 Thr Arg Glu Ile Thr Ile Arg Ser Gly Cys Leu Xaa Ala Arg Gln Asn
 20 25 30
 Arg Thr Ile Phe Leu Phe Phe Gln Lys Gln Ile Gly Glu Ile Ser Leu
 35 40 45
 Asn Ser Phe Ser Gln Gln Arg Thr Ala Trp Arg Lys Arg Val Cys Ser
 50 55 60

<210> 6282

<211> 469

<212> PRT

<213> Homo sapiens

<400> 6282

Val Arg Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu Pro
 1 5 10 15

5507

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Gly | Ser | Arg | Gly | Arg | Gly | Ala | Ala | Ala | Trp | Arg | Ile | Leu | Arg | Cys | Arg | | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Arg | Leu | Pro | Glu | Pro | Ser | Pro | Phe | Leu | Thr | Gln | Pro | Asn | Leu | Ala | Gln | | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | | |
| Ser | Gln | Pro | Pro | Ala | Pro | Val | Pro | Val | Thr | Asp | Pro | Ser | Val | Thr | Met | | | |
| | | 50 | | | | 55 | | | | | 60 | | | | | | | |
| His | Pro | Ala | Val | Phe | Leu | Ser | Leu | Pro | Asp | Leu | Arg | Cys | Ser | Leu | Leu | | | |
| | | 65 | | | 70 | | | | 75 | | | | | | 80 | | | |
| Leu | Leu | Val | Thr | Trp | Val | Phe | Thr | Pro | Val | Thr | Thr | Glu | Ile | Thr | Ser | | | |
| | | | | 85 | | | | 90 | | | | | | 95 | | | | |
| Leu | Asp | Thr | Glu | Asn | Ile | Asp | Glu | Ile | Leu | Asn | Asn | Ala | Asp | Val | Ala | | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | | |
| Leu | Val | Asn | Phe | Tyr | Ala | Asp | Trp | Cys | Arg | Phe | Ser | Gln | Met | Leu | His | | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | | |
| Pro | Ile | Phe | Glu | Glu | Ala | Ser | Asp | Val | Ile | Lys | Glu | Glu | Phe | Pro | Asn | | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | | |
| Glu | Asn | Gln | Val | Val | Phe | Ala | Arg | Val | Asp | Cys | Asp | Gln | His | Ser | Asp | | | |
| | | 145 | | | 150 | | | | | 155 | | | | | 160 | | | |
| Ile | Ala | Gln | Arg | Tyr | Arg | Ile | Ser | Lys | Tyr | Pro | Thr | Leu | Lys | Leu | Phe | | | |
| | | | | 165 | | | | 170 | | | | | | 175 | | | | |
| Arg | Asn | Gly | Met | Met | Met | Lys | Arg | Glu | Tyr | Arg | Gly | Gln | Arg | Ser | Val | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | |
| Lys | Ala | Leu | Ala | Asp | Tyr | Ile | Arg | Gln | Gln | Lys | Ser | Asp | Pro | Ile | Gln | | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | | |
| Glu | Ile | Arg | Asp | Leu | Ala | Glu | Ile | Thr | Thr | Leu | Asp | Arg | Ser | Lys | Arg | | | |
| | | 210 | | | | 215 | | | | | 220 | | | | | | | |
| Asn | Ile | Ile | Gly | Tyr | Phe | Glu | Gln | Lys | Asp | Ser | Asp | Asn | Tyr | Arg | Val | | | |
| | | 225 | | | 230 | | | | | 235 | | | | | 240 | | | |
| Phe | Glu | Arg | Val | Ala | Asn | Ile | Leu | His | Asp | Asp | Cys | Ala | Phe | Leu | Ser | | | |
| | | | 245 | | | | | | 250 | | | | 255 | | | | | |
| Ala | Phe | Gly | Asp | Val | Ser | Lys | Pro | Glu | Arg | Tyr | Ser | Gly | Asp | Asn | Ile | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | |
| Ile | Tyr | Lys | Pro | Pro | Gly | His | Ser | Ala | Pro | Asp | Met | Val | Tyr | Leu | Gly | | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | | |

5508

Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys Cys
 290 295 300
 Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu Thr
 305 310 315 320
 Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp Thr
 325 330 335
 Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile Ser
 340 345 350
 Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe Arg
 355 360 365
 His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val Ile
 370 375 380
 Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys Asp
 385 390 395 400
 Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His Ser
 405 410 415
 Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp Thr
 420 425 430
 Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu Ser
 435 440 445
 Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu Arg
 450 455 460
 Asp Arg Asp Glu Leu
 465

<210> 6283

<211> 172

<212> PRT

<213> Homo sapiens

<400> 6283

Pro Arg Gly Ala Arg Gln Asp Thr Glu Ala Gly Ser Pro Trp Cys Ser
 1 5 10 15
 Tyr Arg His Gly Pro Leu Ser Ser Arg Gln Asp Cys Pro Arg Ala Trp
 20 25 30
 Gln Trp Arg Gln Pro His Arg Pro Gly His Leu Gln Asp Val Pro Pro

5509

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Pro Gly Ile His Leu Gln Arg Leu Ser Gln Pro Gly Pro Arg Glu Ala | | |
| 50 | 55 | 60 |
| Leu Arg Glu Cys Pro Ser Gln Trp Pro Leu Ile Arg Gly Arg His Leu | | |
| 65 | 70 | 75 |
| Cys Gln Leu Arg Gln Pro Gln Gly Asp Ser Gly Pro Ala Gly Leu Gly | | |
| | 85 | 90 |
| Arg Arg Asp Gly Pro Ser Ala Phe Cys His Pro Ala Arg Cys Cys His | | |
| | 100 | 105 |
| Cys Ser Arg Gln Cys Pro Ala Pro Gly Leu Cys Ala Gly Gly Val Leu | | |
| | 115 | 120 |
| Ala Ala Leu Pro Ser Ser Gly Leu Trp Glu Lys Gly Thr Met Asp Ala | | |
| | 130 | 135 |
| Val Gly His Gly His Asp Gly Ala Ser Arg Arg Val Thr Leu Gly Leu | | |
| 145 | 150 | 155 |
| Gln Gly Asp Ile Lys Gly Gln Gly Cys Leu Leu Arg | | |
| | 165 | 170 |

<210> 6284

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6284

| |
|---|
| Pro Ser Pro Pro Ser Pro Pro Cys Asn Thr Thr Ala Leu Gly Ala Leu |
| 1 5 10 15 |
| Ser Thr Ser Ile Met Gly Pro Arg Pro His Ala Tyr Phe Gly Pro Glu |
| 20 25 30 |
| Ala Ser Ala Ser Lys Phe Lys Leu Leu His Pro Asp Phe Ile Ser Tyr |
| 35 40 45 |
| Leu Thr Glu Arg Phe Leu Lys Ser Lys Leu Ile Asn Thr His Phe Gly |
| 50 55 60 |

5510

Asp Leu Tyr Met Pro Ser Thr Gly Ala Leu Met Leu Leu Thr Ala Xaa
 65 70 75 80

His Thr Cys Asp Gln Val Ser Ala Tyr Gly Phe Ile Thr Ser Asn Tyr
 85 90 95

Trp Lys Phe Ser Asp His Tyr Phe Glu Arg Lys Met Lys Pro Leu Ile
 100 105 110

Phe Tyr Ala Asn His Asp Leu Ser Leu Glu Ala Ala Leu Trp Arg Asp
 115 120 125

Leu His Lys Ala Gly Ile Leu Gln Leu Tyr Gln Arg
 130 135 140

<210> 6285

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6285

Ile Tyr Cys Ala Leu Leu Gly Cys Met Asp Asp Tyr Thr Thr Asp Ser
 1 5 10 15

Arg Gly Asp Val Gly Thr Trp Val Arg Lys Ala Ala Met Thr Ser Leu
 20 25 30

Met Asp Leu Thr Leu Leu Leu Ala Arg Ser Gln Pro Glu Leu Ile Glu
 35 40 45

5511

Ala His Thr Cys Glu Arg Ile Met Cys Cys Val Ala Gln Gln Ala Ser
 50 55 60

Glu Lys Ile Asp Arg Phe Arg Ala His Ala Ala Ser Val Phe Leu Thr
 65 70 75 80

Leu Leu His Phe Asp Ser Pro Pro Ile Pro His Val Pro His Arg Gly
 85 90 95

Glu Leu Glu Lys Leu Phe Pro Arg Ser Asp Val Ala Ser Val Asn Trp
 100 105 110

Ser Ala Xaa Ser Gln Ala Phe Pro Arg Ile Thr Xaa Pro Trp Val Ala
 115 120 125

Thr Tyr Gly Xaa Xaa Ser Trp Trp Gly
 130 135

<210> 6286

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6286

Arg Trp Gly Ser Lys Ser Pro Thr Ala Leu Pro Ile Phe Leu Glu Leu
 1 5 10 15

Thr Ala Gly Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln
 20 25 30

Leu Tyr Phe Phe Ile Xaa Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile
 35 40 45

Asp Leu Gln Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys
 50 55 60

Gly Ala Phe Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys
 65 70 75 80

Thr Asp Ser Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys
 85 90 95

Cys Thr Lys Asp Pro Ala Glu Asp Val Ile Asn Thr Glu Cys Gly Tyr

5512

100 105 110

Gly Cys Gln Ala Lys Thr Arg Ser
115 120

<210> 6287
<211> 153
<212> PRT
<213> Homo sapiens

<400> 6287

Ser Thr His Ala Ser Gly Ser Pro Ser Pro Ala Asn His Gly Glu Leu
1 5 10 15
Gly Ser Val Pro Gly Gly Arg Arg Arg Gly Cys Gln Ala Pro Gly Thr
20 25 30
Arg Gly Val Cys Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe
35 40 45
His Leu Arg His Arg His Arg His Gly Leu Trp Leu Ala Asp Val His
50 55 60
Ser Glu Glu Val Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg
65 70 75 80
Gly Cys Arg Leu Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly
85 90 95
Glu Met Gln Gln Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln
100 105 110
Arg Gln Glu His Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His
115 120 125
Arg Gly Leu Gly Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro
130 135 140
Asp Pro Arg Pro Thr Leu Pro Thr Pro
145 150

5513

Ala Lys Ile Ala Lys Glu Glu Ile Phe Gly Pro Val Met Gln Ile Leu
 1 5 10 15
 Lys Phe Lys Thr Ile Glu Glu Val Val Gly Arg Ala Asn Asn Ser Thr
 20 25 30
 Tyr Gly Leu Ala Ala Ala Val Phe Thr Lys Asp Leu Asp Lys Ala Asn
 35 40 45
 Tyr Leu Ser Gln Ala Leu Gln Ala Gly Thr Val Trp Val Asn Cys Tyr
 50 55 60
 Asp Val Phe Gly Ala Gln Ser Pro Phe Gly Gly Tyr Lys Met Ser Gly
 65 70 75 80
 Ser Gly Arg Glu Leu Gly Glu Tyr Gly Leu Gln Ala Tyr Thr Glu Val
 85 90 95
 Lys Thr Val Thr Val Lys Val Pro Gln Lys Asn Ser
 100 105

<210> 6289

<211> 341

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6289

Met Asn Thr Asn Trp Pro Ala Ser Val Gln Val Ser Val Asn Ala Thr
 1 5 10 15

Pro Leu Thr Ile Glu Arg Gly Asp Asn Lys Thr Ser His Lys Pro Leu
 20 25 30

Tyr Leu Lys His Val Cys Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr

5514

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Val Thr Ala Cys Cys Cys Ser His Leu Phe Val Leu Gln Leu Val His | | |
| 50 | 55 | 60 |
| Arg Pro Ser Val Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu | | |
| 65 | 70 | 75 |
| Leu Pro Ala Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser | | |
| | 85 | 90 |
| Gly Thr Ile Pro Gly Thr Pro Gly Pro Asn Gly Glu Asp Gly Val Glu | | |
| | 100 | 105 |
| Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg Arg | | |
| | 115 | 120 |
| Ile Gln Leu Pro Ala Arg Gly His Asp Cys Arg His Ile Gln Cys Phe | | |
| | 130 | 140 |
| Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly Thr Trp Arg | | |
| 145 | 150 | 155 |
| Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly Leu Glu Val Asp | | |
| | 165 | 170 |
| Gln Tyr Met Leu Gly Ile Leu Ile Tyr Ile Gln Asn Ser Asp Tyr Glu | | |
| | 180 | 185 |
| Glu Ile Thr Ile Asp Pro Thr Cys Ser Trp Lys Pro Val Pro Val Lys | | |
| | 195 | 200 |
| Pro Asp Met His Ile Lys Glu Glu Pro Asp Gly Pro Ala Leu Lys Arg | | |
| | 210 | 220 |
| Xaa Arg Thr Val Ser Pro Xaa His Val Leu Met Pro Ser Val Met Glu | | |
| 225 | 230 | 235 |
| Met Ile Ala Ala Leu Gly Pro Gly Ala Ala Pro Phe Ala Pro Leu Gln | | |
| | 245 | 250 |
| Pro Pro Ser Val Pro Pro Pro Ala Ser Arg Gln Ser Leu Gly Gln Ala | | |
| | 260 | 265 |
| Ser Leu Gly Pro Thr Gly Glu Leu Ala Phe Ser Pro Ala Thr Gly Val | | |
| | 275 | 285 |
| Met Gly Xaa Pro Ser Met Ser Gly Ala Gly Glu Ala Pro Glu Pro Ala | | |
| | 290 | 300 |
| Leu Asp Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr | | |

5515

| | | | | | | |
|---|--|-----|--|-----|--|-----|
| 305 | | 310 | | 315 | | 320 |
| Leu Gly Pro Pro Asp Leu Pro Thr Asn Asn Asn Asp Asp Leu Leu Ser | | | | | | |
| | | 325 | | 330 | | 335 |
| Leu Phe Glu Asn Asn | | | | | | |
| | | 340 | | | | |

<210> 6290

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6290

5516

Ala Val Leu Cys Pro Ser Xaa Pro Cys Gln Xaa Pro Thr Gln Pro Pro
 1 5 10 15
 Gly Ala Cys Cys Pro Ser Cys Asp Ser Cys Thr Tyr His Ser Gln Val
 20 25 30
 Tyr Ala Asn Gly Gln Asn Phe Thr Asp Ala Asp Ser Pro Cys His Ala
 35 40 45
 Cys His Cys Gln Asp Gly Thr Val Thr Cys Ser Leu Val Asp Cys Pro
 50 55 60
 Xaa Thr Thr Cys Ala Arg Pro Gln Ser Gly Pro Gly Gln Cys Cys Pro
 65 70 75 80
 Arg Cys Pro Asp Cys Ile Leu Glu Glu Glu Val Phe Val Asp Gly Glu
 85 90 95
 Ser Phe Ser His Pro Arg Asp Pro Cys Gln Glu Cys Arg Cys Gln Glu
 100 105 110
 Gly His Ala His Cys Gln Pro Arg Pro Cys Pro Arg Ala Pro Cys Ala
 115 120 125
 His Pro Leu Pro Gly Thr Cys Cys Pro Asn Asp Cys Ser Gly Cys Ala
 130 135 140
 Phe Gly Gly Lys Glu Tyr Pro Ser Gly Ala Asp Xaa Pro His Pro Ser
 145 150 155 160
 Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu
 165 170 175
 Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro
 180 185 190
 Gly Glu Cys Cys Pro Glu Trp Pro Lys Pro Pro Ser Pro Arg Pro Ala
 195 200 205
 Ala His Gly Pro Gly Xaa Gly Pro Thr Ala Arg Pro Pro Arg Lys Tyr
 210 215 220
 Leu Phe Ser Pro Xaa Pro Gly Asp Xaa Leu Gly
 225 230 235

<210> 6291

<211> 55

<212> PRT

<213> Homo sapiens

5517

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6291

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Asn | Asn | Phe | Thr | Gln | Glu | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Lys | Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Arg | Ala | Lys | Leu | Gln |
| | 50 | | | | 55 | |

<210> 6292

<211> 421

<212> PRT

<213> Homo sapiens

<400> 6292

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Asp | Cys | Cys | Val | Pro | Tyr | Leu | Asp | Pro | Glu | Gly | Thr | Ser | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Trp | Leu | Ser | Val | Ser | Leu | Leu | Ser | Ser | Gly | Glu | Ile | Thr | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Ala | Pro | Arg | Met | Glu | Pro | Pro | Gly | Arg | Arg | Glu | Cys | Pro | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Trp | Arg | Phe | Pro | Gly | Leu | Leu | Leu | Ala | Ala | Met | Val | Leu | Leu |
| | | 50 | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Tyr | Ser | Phe | Ser | Asp | Ala | Cys | Glu | Glu | Pro | Pro | Thr | Phe | Glu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Leu | Ile | Gly | Lys | Pro | Lys | Pro | Tyr | Tyr | Glu | Ile | Gly | Glu | Arg |
| | | | | 85 | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Tyr | Lys | Cys | Lys | Lys | Gly | Tyr | Phe | Tyr | Ile | Pro | Pro | Leu | Ala |
| | | | 100 | | | | | 105 | | | | | | 110 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Thr | Ile | Cys | Asp | Arg | Asn | His | Thr | Trp | Leu | Pro | Val | Ser | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5518

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ala | Cys | Tyr | Arg | Glu | Thr | Cys | Pro | Tyr | Ile | Arg | Asp | Pro | Leu | Asn | 130 | 135 | 140 |
| Gly | Gln | Ala | Val | Pro | Ala | Asn | Gly | Thr | Tyr | Glu | Phe | Gly | Tyr | Gln | Met | 145 | 150 | 155 |
| His | Phe | Ile | Cys | Asn | Glu | Gly | Tyr | Tyr | Leu | Ile | Gly | Glu | Glu | Ile | Leu | 165 | 170 | 175 |
| Tyr | Cys | Glu | Leu | Lys | Gly | Ser | Val | Ala | Ile | Trp | Ser | Gly | Lys | Pro | Pro | 180 | 185 | 190 |
| Ile | Cys | Glu | Lys | Val | Leu | Cys | Thr | Pro | Pro | Pro | Lys | Ile | Lys | Asn | Gly | 195 | 200 | 205 |
| Lys | His | Thr | Phe | Ser | Glu | Val | Glu | Val | Phe | Glu | Tyr | Leu | Asp | Ala | Val | 210 | 215 | 220 |
| Thr | Tyr | Ser | Cys | Asp | Pro | Ala | Pro | Gly | Pro | Asp | Pro | Phe | Ser | Leu | Ile | 225 | 230 | 235 |
| Gly | Glu | Ser | Thr | Ile | Tyr | Cys | Gly | Asp | Asn | Ser | Val | Trp | Ser | Arg | Ala | 245 | 250 | 255 |
| Ala | Pro | Glu | Cys | Lys | Val | Val | Lys | Cys | Arg | Phe | Pro | Val | Val | Glu | Asn | 260 | 265 | 270 |
| Gly | Lys | Gln | Ile | Ser | Gly | Phe | Gly | Lys | Lys | Phe | Tyr | Tyr | Lys | Ala | Thr | 275 | 280 | 285 |
| Val | Met | Phe | Glu | Cys | Asp | Lys | Gly | Phe | Tyr | Leu | Asp | Gly | Ser | Asp | Thr | 290 | 295 | 300 |
| Ile | Val | Cys | Asp | Ser | Asn | Ser | Thr | Trp | Asp | Pro | Pro | Val | Pro | Lys | Cys | 305 | 310 | 315 |
| Leu | Lys | Val | Ser | Thr | Ser | Ser | Thr | Thr | Lys | Ser | Pro | Ala | Ser | Ser | Ala | 325 | 330 | 335 |
| Ser | Gly | Pro | Arg | Pro | Thr | Tyr | Lys | Pro | Pro | Val | Ser | Asn | Tyr | Pro | Gly | 340 | 345 | 350 |
| Tyr | Pro | Lys | Pro | Glu | Glu | Gly | Ile | Leu | Asp | Ser | Leu | Asp | Val | Trp | Val | 355 | 360 | 365 |
| Ile | Ala | Val | Ile | Val | Ile | Ala | Ile | Val | Val | Gly | Val | Ala | Val | Ile | Cys | 370 | 375 | 380 |
| Val | Val | Pro | Tyr | Arg | Tyr | Leu | Gln | Arg | Arg | Lys | Lys | Lys | Gly | Lys | Ala | 385 | 390 | 395 |

5519

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro
405 410 415

Ala Glu Gln Arg Gly
420

<210> 6293

<211> 80

<212> PRT

<213> Homo sapiens

<400> 6293

Gly His Cys Gln Gly Leu Lys Pro Val Glu Gln Pro Leu Ala Met Ser
1 5 10 15

Pro Leu Gln Tyr Ser Phe Met Ala Val Ile His Phe Ala Gly Leu Lys
 . 20 25 30

Ala Val Gly Glu Ser Val Gln Lys Pro Leu Asp Tyr Tyr Arg Val Asn
35 40 45

Leu Thr Gly Thr Ile Gln Leu Leu Glu Ile Met Lys Ala His Gly Val
50 55 60

Lys Asn Leu Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Asn Pro Gln
65 70 75 80

<210> 6294

<211> 78

<212> PRT

<213> Homo sapiens

<400> 6294

Glu Ala Asp Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
1 5 10 15

Val Cys Ile Gln Thr His Ile Phe Leu Lys Cys Lys Tyr Ser Leu Phe
20 25 30

Lys Lys Ile Ile Ile Thr Ala Lys Gln Ile Thr Ser Asn Ser Phe Ile
35 40 45

Leu Ile Tyr Pro Val Phe Arg Phe Ser Arg Leu Ala Pro Asn Phe Phe
50 55 60

5520

Thr Asp Tyr Leu Asn Leu Ile Gln Phe Met Tyr Cys Asn Val
 65 70 75

<210> 6295

<211> 284

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6295

Phe Ser Val Val Asp Xaa Arg Lys Phe Ser Ala Val Ser Gly Glu Thr
 1 5 10 15

Arg Gly Leu Arg Val Ser Leu Ser Val Phe Gln Ser Pro Gly Ala Val
 20 25 30

Val Gln Gly Leu Gly Leu Val Met Ala Ser Pro Ser Arg Arg Leu Gln
 35 40 45

Thr Lys Pro Val Ile Thr Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr
 50 55 60

Phe Ile Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp
 65 70 75 80

Gly Lys Val Ser Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala
 85 90 95

Thr Asn Val Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu
 100 105 110

Leu Gly Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met
 115 120 125

Leu Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu
 130 135 140

Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn Ser
 145 150 155 160

Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser Thr Gly
 165 170 175

Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr Leu His Cys

5521

180 185 190
 Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr Asn Tyr Tyr Ser
 195 200 205
 Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu Glu Asp Cys Thr Pro
 210 215 220
 Gln Arg Asp Ala Asp Lys Val Asn Asn Glu Gly Cys Phe Ile Lys Val
 225 230 235 240
 Met Thr Ile Ile Glu Ser Glu Met Gly Val Val Ala Gly Ile Ser Phe
 245 250 255
 Gly Val Ala Cys Phe Gln Leu Ile Gly Ile Phe Leu Ala Tyr Cys Leu
 260 265 270
 Ser Arg Ala Ile Thr Asn Asn Gln Tyr Glu Ile Val
 275 280

 <210> 6296
 <211> 368
 <212> PRT
 <213> Homo sapiens

 <400> 6296
 Lys Thr Leu Ser Gly Gly Gly Arg Arg Gln Lys Gly Trp Asp Val Ser
 1 5 10 15
 Phe Lys Phe Pro Gly His Ser Leu Ile Val Leu Tyr Val Pro Ala Asp
 20 25 30
 Cys Gln Cys Asp Leu Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala
 35 40 45
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
 50 55 60
 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
 65 70 75 80
 Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
 85 90 95
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
 100 105 110
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
 115 120 125

5522

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
 130 135 140
 Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
 145 150 155 160
 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
 165 170 175
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
 180 185 190
 Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
 195 200 205
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 210 215 220
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
 225 230 235 240
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
 245 250 255
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
 260 265 270
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
 275 280 285
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
 290 295 300
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 305 310 315 320
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
 325 330 335
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
 340 345 350
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 355 360 365

5523

<210> 6297

<211> 335

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6297

Thr Ser Ser Ile Ser Tyr Leu Tyr Asn Lys Leu Pro Arg Arg Arg Ala
 1 5 10 15

Asp Leu Phe Gly Glu Glu Leu Glu Arg Leu Leu Lys Xaa Lys Tyr Glu
 20 25 30

Gly His Trp Tyr Pro Glu Lys Pro Leu Lys Gly Ser Gly Phe Arg Cys
 35 40 45

Val His Ile Gly Glu Met Val Asp Pro Val Val Glu Leu Ala Ala Lys
 50 55 60

Arg Ser Gly Leu Ala Val Glu Asp Val Arg Ala Asn Val Pro Glu Glu
 65 70 75 80

Leu Ser Val Trp Ile Asp Pro Phe Glu Val Ser Tyr Gln Ile Gly Glu
 85 90 95

Lys Gly Ala Val Lys Val Leu Tyr Leu Asp Asp Ser Glu Gly Cys Gly
 100 105 110

Ala Pro Glu Leu Asp Lys Glu Ile Lys Ser Ser Phe Asn Pro Asp Ala
 115 120 125

Gln Val Phe Val Pro Ile Gly Ser Gln Asp Ser Ser Leu Ser Asn Ser
 130 135 140

Pro Ser Pro Ser Phe Gly Gln Ser Pro Ser Pro Thr Phe Ile Pro Arg
 145 150 155 160

Ser Ala Gln Pro Ile Thr Phe Thr Thr Ala Ser Phe Ala Ala Thr Lys
 165 170 175

Phe Gly Ser Thr Lys Met Lys Lys Gly Gly Gly Ala Ala Ser Gly Gly
 180 185 190

Gly Val Ala Ser Ser Gly Ala Gly Gly Gln Gln Pro Pro Gln Gln Pro
 195 200 205

Arg Met Ala Arg Ser Pro Thr Asn Ser Leu Leu Lys His Lys Ser Leu

5524

210 215 220
 Ser Leu Ser Met His Ser Leu Asn Phe Ile Thr Ala Asn Pro Ala Pro
 225 230 235 240
 Gln Ser Gln Leu Ser Pro Asn Ala Lys Glu Phe Val Tyr Asn Gly Gly
 245 250 255
 Gly Ser Pro Ser Leu Phe Phe Asp Ala Ala Asp Gly Gln Gly Ser Gly
 260 265 270
 Thr Pro Gly Pro Phe Gly Gly Ser Gly Ala Gly Thr Cys Asn Ser Ser
 275 280 285
 Ser Phe Asp Met Ala Gln Val Phe Gly Gly Gly Ala Asn Ser Leu Phe
 290 295 300
 Leu Glu Lys Thr Pro Phe Val Glu Gly Leu Ser Tyr Asn Leu Asn Thr
 305 310 315 320
 Met Gln Tyr Pro Ser Gln Gln Phe Gln Pro Val Val Leu Ala Asn
 325 330 335

 <210> 6298
 <211> 461
 <212> PRT
 <213> Homo sapiens

 <400> 6298
 Gln Ser Leu Asn Asn Tyr Leu Val Ile Pro Thr Ser Ala Pro Trp Cys
 1 5 10 15
 Glu Gln Leu Leu Asn Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys
 20 25 30
 Leu Ser Leu Phe Thr Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn
 35 40 45
 Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn
 50 55 60
 Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu
 65 70 75 80
 Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile
 85 90 95
 Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg
 100 105 110

5525

Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu
 115 120 125
 Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val
 130 135 140
 Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn Arg Leu
 145 150 155 160
 Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr
 165 170 175
 Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr
 180 185 190
 Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp
 195 200 205
 Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu
 210 215 220
 His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val
 225 230 235 240
 Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln
 245 250 255
 Phe Glu Leu Arg Arg Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val
 260 265 270
 Pro Ser Thr Phe Leu Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser
 275 280 285
 Leu Asp Ser Val Pro Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu
 290 295 300
 Ser Met Thr Thr Leu Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr
 305 310 315 320
 Asn Cys Phe Ile Lys Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser
 325 330 335
 Phe Val Phe Gly Ala Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser
 340 345 350
 Leu Gln Gln Met Ala Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu
 355 360 365
 Glu Val Ser Ile Thr Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys
 370 375 380

5526

Arg Lys Ile Ser Phe Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp
 385 390 395 400

Tyr Ser Asp Leu Thr Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe
 405 410 415

Arg Glu Lys Met Gly Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro
 420 425 430

Ser Asn Val Asp His Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met
 435 440 445

Leu Ala Asn Val Phe Tyr Trp Ala Tyr Tyr Met Tyr Phe
 450 455 460

<210> 6299

<211> 403

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6299

Ala Gly Trp Ser Pro Glu Ser Leu Ala Tyr Trp Pro Xaa Arg Ser Asp
 1 5 10 15

Thr Glu Val Pro Pro Leu Asp Leu Gly Trp Thr Asp Thr Gly Phe Tyr
 20 25 30

Arg Gly Val Ser Xaa Val Thr Leu Phe Thr His Pro Pro Lys Asp Glu

35

40

45

Gln Lys Val Ile Ala Val Val Met Asp Leu Phe Thr Asp Gly Asp Ile
65 70 75 80

Phe Gln Asp Ile Val Asp Ala Ala Cys Lys Arg Arg Val Pro Val Tyr
85 90 95

Ile Ile Leu Asp Glu Ala Gly Val Lys Tyr Phe Leu Glu Met Cys Gln
100 105 110

Asp Leu Gln Leu Thr Asp Phe Arg Ile Arg Asn Ile Arg Val Arg Ser
115 120 125

Val Thr Gly Val Gly Phe Tyr Met Pro Met Gly Arg Ile Lys Gly Thr
130 135 140

Leu Ser Ser Arg Phe Leu Met Val Asp Gly Asp Lys Val Ala Thr Gly
145 150 155 160

Ser Tyr Arg Phe Thr Trp Ser Ser Ser His Val Asp Arg Asn Leu Leu
165 170 175

Leu Leu Leu Thr Gly Gln Asn Val Glu Pro Phe Asp Thr Glu Phe Arg
180 185 190

Glu Leu Tyr Ala Ile Ser Glu Glu Val Asp Leu Tyr Arg Gln Leu Ser
195 200 205

Leu Ala Gly Arg Val Gly Leu His Tyr Ser Ser Thr Val Ala Arg Lys
210 215 220

Leu Ile Asn Pro Lys Tyr Ala Leu Val Ser Gly Cys Arg His Pro Pro
225 230 235 240

Gly Glu Met Xaa Arg Trp Ala Ala Arg Gln Gln Arg Glu Ala Gly Gly
245 250 255

Asn Pro Glu Gly Gln Glu Glu Gly Ala Ser Gly Gly Glu Ser Ala Trp
260 265 270

Arg Leu Glu Ser Phe Leu Lys Asp Leu Val Thr Val Glu Gln Val Leu
275 280 285

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Val | Glu | Pro | Ile | Pro | Leu | Gly | Glu | Leu | Ser | Gln | Lys | Asp | Gly |
| 290 | | | | | | 295 | | | | | 300 | | | | |

Arg Met Val Ser His Met His Arg Asp Leu Lys Pro Lys Ser Arg Glu

5528

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|--|--|--|--|--|--|-----|
| 305 | | | | | | | | | 310 | | | | | | | | | 315 | | | | | | | | | 320 |
| Ala | Pro | Ser | Arg | Asn | Gly | Met | Gly | Glu | Ala | Ala | Arg | Gly | Glu | Ala | Ala | | | | | | | | | | | | |
| | | | | 325 | | | | | 330 | | | | | | | | 335 | | | | | | | | | | |
| Pro | Ala | Gly | Arg | Phe | Ser | Ser | Arg | Leu | Phe | Ser | Arg | Arg | Ala | Lys | Arg | | | | | | | | | | | | |
| | | | | 340 | | | | | 345 | | | | | | | | 350 | | | | | | | | | | |
| Pro | Ala | Ala | Pro | Asn | Gly | Met | Ala | Ser | Ser | Val | Ser | Thr | Glu | Thr | Ser | | | | | | | | | | | | |
| | | | | 355 | | | | | 360 | | | | | | | | 365 | | | | | | | | | | |
| Glu | Val | Glu | Phe | Leu | Thr | Gly | Lys | Arg | Pro | Asn | Glu | Asn | Ser | Ser | Ala | | | | | | | | | | | | |
| | | | | 370 | | | | | 375 | | | | | | | | 380 | | | | | | | | | | |
| Asp | Ile | Ser | Gly | Lys | Thr | Ser | Pro | Ser | Ser | Ala | Lys | Pro | Ser | Asn | Cys | | | | | | | | | | | | |
| 385 | | | | | | | | 390 | | | | | | | | 395 | | | | 400 | | | | | | | |
| Val | Ile | Ser | | | | | | | | | | | | | | | | | | | | | | | | | |

<210> 6300

<211> 775

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6300

Gln Xaa Xaa Tyr Xaa Xaa Pro Gly Arg Pro Thr Arg Pro Gly Ser Ser
1 5 10 15

5529

Gly Ala Lys Met Ser Phe Val Ala Gly Val Ile Arg Arg Leu Asp Glu
 20 25 30

Thr Val Val Asn Arg Ile Ala Ala Gly Glu Val Ile Gln Arg Pro Ala
 35 40 45

Asn Ala Ile Lys Glu Met Ile Glu Asn Cys Leu Asp Ala Lys Ser Thr
 50 55 60

Ser Ile Gln Val Ile Val Lys Glu Gly Gly Leu Lys Leu Ile Gln Ile
 65 70 75 80

Gln Asp Asn Gly Thr Gly Ile Arg Lys Glu Asp Leu Asp Ile Val Cys
 85 90 95

Glu Arg Phe Thr Thr Ser Lys Leu Gln Ser Phe Glu Asp Leu Ala Ser
 100 105 110

Ile Ser Thr Tyr Gly Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser His
 115 120 125

Val Ala His Val Thr Ile Thr Thr Lys Thr Ala Asp Gly Lys Cys Ala
 130 135 140

Tyr Arg Ala Ser Tyr Ser Asp Gly Lys Leu Lys Ala Pro Pro Lys Pro
 145 150 155 160

Cys Ala Gly Asn Gln Gly Thr Gln Ile Thr Val Glu Asp Leu Phe Tyr
 165 170 175

Asn Ile Ala Thr Arg Arg Lys Ala Leu Lys Asn Pro Ser Glu Glu Tyr
 180 185 190

Gly Lys Ile Leu Glu Val Val Gly Arg Tyr Ser Val His Asn Ala Gly
 195 200 205

Ile Ser Phe Ser Val Lys Lys Gln Gly Glu Thr Val Ala Asp Val Arg
 210 215 220

Thr Leu Pro Asn Ala Ser Thr Val Asp Asn Ile Arg Ser Ile Phe Gly
 225 230 235 240

Asn Ala Val Ser Arg Glu Leu Ile Glu Ile Gly Cys Glu Asp Lys Thr
 245 250 255

Leu Ala Phe Lys Met Asn Gly Tyr Ile Ser Asn Ala Asn Tyr Ser Val
 260 265 270

Lys Lys Cys Ile Phe Leu Leu Phe Ile Asn His Arg Leu Val Glu Ser
 275 280 285

5530

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Leu | Arg | Lys | Ala | Ile | Glu | Thr | Val | Tyr | Ala | Ala | Tyr | Leu | Pro | 290 | 295 | 300 |
| Lys | Asn | Thr | His | Pro | Phe | Leu | Tyr | Leu | Ser | Leu | Glu | Ile | Ser | Pro | Gln | 305 | 310 | 315 |
| Asn | Val | Asp | Val | Asn | Val | His | Pro | Thr | Lys | His | Glu | Val | His | Phe | Leu | 325 | 330 | 335 |
| His | Glu | Glu | Ser | Ile | Leu | Glu | Arg | Val | Gln | Gln | His | Ile | Glu | Ser | Lys | 340 | 345 | 350 |
| Leu | Leu | Gly | Ser | Asn | Ser | Ser | Arg | Met | Tyr | Phe | Thr | Gln | Thr | Leu | Leu | 355 | 360 | 365 |
| Pro | Gly | Leu | Ala | Gly | Pro | Ser | Gly | Glu | Met | Val | Lys | Ser | Thr | Thr | Ser | 370 | 375 | 380 |
| Leu | Thr | Ser | Ser | Ser | Thr | Ser | Gly | Ser | Ser | Asp | Lys | Val | Tyr | Ala | His | 385 | 390 | 395 |
| Gln | Met | Val | Arg | Thr | Asp | Ser | Arg | Glu | Gln | Lys | Leu | Asp | Ala | Phe | Leu | 405 | 410 | 415 |
| Gln | Pro | Leu | Ser | Lys | Pro | Leu | Ser | Ser | Gln | Pro | Gln | Ala | Ile | Val | Thr | 420 | 425 | 430 |
| Glu | Asp | Lys | Thr | Asp | Ile | Ser | Ser | Gly | Arg | Ala | Arg | Gln | Gln | Asp | Glu | 435 | 440 | 445 |
| Glu | Met | Leu | Glu | Leu | Pro | Ala | Pro | Ala | Glu | Val | Ala | Ala | Lys | Asn | Gln | 450 | 455 | 460 |
| Ser | Leu | Glu | Gly | Asp | Thr | Thr | Lys | Gly | Thr | Ser | Glu | Met | Ser | Glu | Lys | 465 | 470 | 475 |
| Arg | Gly | Pro | Thr | Ser | Ser | Asn | Pro | Arg | Lys | Arg | His | Arg | Glu | Asp | Ser | 485 | 490 | 495 |
| Asp | Val | Glu | Met | Val | Glu | Asp | Asp | Ser | Arg | Lys | Glu | Met | Thr | Ala | Ala | 500 | 505 | 510 |
| Cys | Thr | Pro | Arg | Arg | Arg | Ile | Ile | Asn | Leu | Thr | Ser | Val | Leu | Ser | Leu | 515 | 520 | 525 |
| Gln | Glu | Glu | Ile | Asn | Glu | Gln | Gly | His | Glu | Val | Leu | Arg | Glu | Met | Leu | 530 | 535 | 540 |
| His | Asn | His | Ser | Phe | Val | Gly | Cys | Val | Asn | Pro | Gln | Trp | Ala | Leu | Ala | 545 | 550 | 555 |

5531

Gln His Gln Thr Lys Leu Tyr Leu Leu Asn Thr Thr Lys Leu Ser Glu
 565 570 575

Glu Leu Phe Tyr Gln Ile Leu Ile Tyr Asp Phe Ala Asn Phe Gly Val
 580 585 590

Leu Arg Leu Ser Glu Pro Ala Pro Leu Phe Asp Leu Ala Met Leu Ala
 595 600 605

Leu Asp Ser Pro Glu Ser Gly Trp Thr Glu Glu Asp Gly Pro Lys Glu
 610 615 620

Gly Leu Ala Glu Tyr Ile Val Glu Phe Leu Lys Lys Lys Ala Glu Met
 625 630 635 640

Leu Ala Asp Tyr Phe Ser Leu Glu Ile Asp Glu Glu Gly Asn Leu Ile
 645 650 655

Gly Leu Pro Leu Leu Ile Asp Asn Tyr Val Pro Pro Leu Glu Gly Leu
 660 665 670

Pro Ile Phe Ile Leu Arg Leu Ala Thr Glu Val Asn Trp Asp Glu Glu
 675 680 685

Lys Glu Cys Phe Glu Ser Leu Ser Lys Glu Cys Ala Met Phe Tyr Ser
 690 695 700

Ile Arg Lys Gln Tyr Ile Ser Glu Glu Ser Thr Leu Ser Gly Gln Gln
 705 710 715 720

Ser Glu Val Pro Gly Ser Ile Pro Asn Ser Trp Lys Trp Thr Val Glu
 725 730 735

His Ile Val Tyr Lys Ala Leu Arg Ser His Ile Leu Pro Pro Lys His
 740 745 750

Phe Thr Glu Asp Gly Asn Ile Leu Gln Leu Ala Asn Leu Pro Asp Leu
 755 760 765

Tyr Lys Val Phe Glu Arg Cys
 770 775

<210> 6301

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5532

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6301

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Leu | Val | Phe | Pro | Ser | Ser | Cys | Leu | Ala | Phe | Xaa | Ser | Pro | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Phe | Lys | Arg | Phe | Lys | Glu | Thr | Thr | Arg | Pro | Phe | Ser | Asn | Glu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gly | Thr | Thr | Arg | Pro | Val | Val | Pro | Ile | Asp | Ser | Ser | Asp | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Asp | Ile | Arg | Met | Pro | Gly | Val | Thr | Pro | Lys | Gln | Ser | Asp | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Cys | Met | Ser | Met | Arg | Ile | Pro | Val | Asp | Glu | Glu | Ala | Phe | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Phe | Lys | Pro | Arg | Ala | Ser | Met | Asp | Thr | Val | His | His | Met | Leu |
| | | | 85 | | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Gly | Cys | Asn | Met | Pro | Ser | Ser | Thr | Gly | Xaa | Tyr | Trp | Phe | Cys |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Glu | Gly | Thr | Cys | Thr | Asp | Lys | Ala | Asn | Asp | Ser | Val | Cys | Leu | Gly |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Cys | Phe | Pro | Leu | Pro | Gly | Leu | Pro | Lys | Xaa | Cys | Trp | Asp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Leu | Gly | Gly | Xaa | Asp | Trp | Glu | Val | Asn | Thr | Trp | Tyr | Tyr | Arg | |
| 145 | | | | | 150 | | | | | 155 | | | | | |

5533

<210> 6302

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6302

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Lys | Gly | Phe | Tyr | Ser | Tyr | Gln | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Glu | Trp | Phe | Arg | Asp | Thr | Asp | Ala | Glu | Phe | Val | Asp | Ile | Asp |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Ser | His | Leu | Ile | Leu | Xaa | Xaa | Arg | Ser | Xaa | Val | Pro | Ile | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Trp | Asn | Lys | Ser | Ser | Lys | Lys | Phe | Val | Pro | His | Gly | Asp | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Met | Glu | Asp | Val | Leu | Ala | Val | Lys | Ser | Phe | Arg | Met | Gln | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Tyr | Leu | Ser | Leu | Thr | Arg | Phe | Ile | Gly | Asp | Ser | Arg | Val | Met |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Trp | Asn | Ser | Lys | Gln | Phe | Val | Glu | Ile | Gln | Ala | Leu | Pro | Ser | Arg |
| | | 115 | | | | | | 120 | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Met | Thr | Leu | Gln | Pro | Phe | Ser | Phe | Lys | Asp | Asn | His | Tyr | Leu |
| | | 130 | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Gly | Ser | Asp | Tyr | Thr | Phe | Ser | Gln | Ile | Tyr | Gln | Trp | Asp | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

5534

Glu Lys Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro
 165 170 175
 Arg Ser Phe Thr Ala Val Ser Thr Asp Arg Arg Asp Phe Phe Phe Ala
 180 185 190
 Ser Ser Phe Lys Gly Lys Thr Lys Ile Phe Glu His Ile Ile Val Asp
 195 200 205
 Leu Ser Leu
 210

<210> 6303

<211> 704

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6303

Arg His Pro Ala Ala His Pro Ala Gly Pro Gly Glu Ala Leu Ala Ala
 1 5 10 15
 Val Leu Lys Glu Val Cys Asp Ala Trp Ser Leu Thr His Ser Glu Arg
 20 25 30
 Tyr Ala Leu Gln Phe Ala Asp Gly His Arg Arg Tyr Ile Thr Glu Asn
 35 40 45
 Asn Arg Ala Glu Ile Lys Asn Gly Ser Ile Leu Cys Leu Ser Thr Ala
 50 55 60
 Pro Asp Leu Glu Ala Glu Gln Leu Leu Gly Gly Leu Gln Ser Asn Ser
 65 70 75 80
 Pro Glu Gly Arg Arg Glu Ala Leu Xaa Arg Leu Val Pro Leu Ala Ser
 85 90 95
 Asp Met Ile Phe Ala Arg Glu Val Ile Ser Arg Asn Gly Leu Gln Ile
 100 105 110

5535

Leu Gly Thr Ile Ile Glu Asp Gly Asp Xaa Leu Gly Glu Val Leu Ala
 115 120 125
 Leu Ser Leu Arg Ala Phe Ser Glu Leu Met Glu His Gly Val Val Ser
 130 135 140
 Trp Glu Thr Leu Ser Ile Pro Phe Val Arg Lys Val Val Cys Tyr Val
 145 150 155 160
 Asn Met Asn Leu Met Asp Ala Ser Val Pro Pro Leu Ala Leu Gly Leu
 165 170 175
 Leu Glu Ser Val Thr Leu Ser Ser Pro Ala Leu Gly Gln Leu Val Lys
 180 185 190
 Ser Glu Val Pro Leu Asp Arg Leu Leu Val His Leu Gln Val Met Asn
 195 200 205
 Gln Gln Leu Gln Thr Lys Ala Met Ala Leu Leu Thr Ala Leu Leu Gln
 210 215 220
 Gly Ala Ser Pro Val Glu Arg Lys His Met Leu Asp Tyr Leu Trp Gln
 225 230 235 240
 Arg Asn Leu Arg Gln Phe Ile Tyr Lys Asn Ile Ile His Ser Ala Ala
 245 250 255
 Pro Met Gly Asp Glu Met Ala His His Leu Tyr Val Leu Gln Ala Leu
 260 265 270
 Met Leu Gly Leu Leu Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr
 275 280 285
 Ser Gln Glu Gln Arg Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe
 290 295 300
 Glu Val Glu Gly Glu Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg
 305 310 315 320
 Arg Ser Leu Cys Ala Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser
 325 330 335
 Asn Pro Ala Gln Asp Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu
 340 345 350
 Asp Asn Met Leu Tyr Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg
 355 360 365
 Phe Val Leu Glu Asn Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe
 370 375 380

5536

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Gly | Ser | Ile | Gln | Leu | Thr | Val | Leu | Leu | Cys | Glu | Leu | Leu | Arg | 385 | 390 | 395 | 400 |
| Val | Gly | Glu | Pro | Cys | Ser | Glu | Thr | Ala | Gln | Asp | Phe | Ser | Pro | Met | Phe | 405 | 410 | 415 | |
| Phe | Gly | Gln | Asp | Gln | Ser | Phe | His | Glu | Leu | Phe | Cys | Val | Gly | Ile | Gln | 420 | 425 | 430 | |
| Leu | Leu | Asn | Lys | Thr | Trp | Lys | Glu | Met | Arg | Ala | Thr | Gln | Glu | Asp | Phe | 435 | 440 | 445 | |
| Asp | Lys | Val | Met | Gln | Val | Val | Arg | Glu | Gln | Leu | Ala | Arg | Thr | Leu | Ala | 450 | 455 | 460 | |
| Leu | Lys | Pro | Thr | Ser | Leu | Glu | Leu | Phe | Arg | Thr | Lys | Val | Asn | Ala | Leu | 465 | 470 | 475 | 480 |
| Thr | Tyr | Gly | Glu | Val | Leu | Arg | Leu | Arg | Gln | Thr | Glu | Arg | Leu | His | Gln | 485 | 490 | 495 | |
| Glu | Gly | Thr | Leu | Ala | Pro | Pro | Ile | Leu | Glu | Leu | Arg | Glu | Lys | Leu | Lys | 500 | 505 | 510 | |
| Pro | Glu | Leu | Met | Gly | Leu | Ile | Arg | Gln | Gln | Arg | Leu | Leu | Arg | Leu | Cys | 515 | 520 | 525 | |
| Glu | Gly | Thr | Leu | Phe | Arg | Lys | Ile | Ser | Ser | Arg | Arg | Arg | Gln | Asp | Lys | 530 | 535 | 540 | |
| Leu | Trp | Phe | Cys | Cys | Leu | Ser | Pro | Asn | His | Lys | Leu | Leu | Gln | Tyr | Gly | 545 | 550 | 555 | 560 |
| Asp | Met | Glu | Glu | Gly | Ala | Ser | Pro | Pro | Thr | Leu | Glu | Ser | Leu | Pro | Glu | 565 | 570 | 575 | |
| Gln | Leu | Pro | Val | Ala | Asp | Met | Arg | Ala | Leu | Leu | Thr | Gly | Lys | Asp | Cys | 580 | 585 | 590 | |
| Pro | His | Val | Arg | Glu | Lys | Gly | Ser | Gly | Lys | Gln | Asn | Lys | Asp | Leu | Tyr | 595 | 600 | 605 | |
| Glu | Leu | Ala | Phe | Ser | Ile | Ser | Tyr | Asp | Arg | Gly | Glu | Glu | Glu | Ala | Tyr | 610 | 615 | 620 | |
| Leu | Asn | Phe | Ile | Ala | Pro | Ser | Lys | Arg | Glu | Phe | Tyr | Leu | Trp | Thr | Asp | 625 | 630 | 635 | 640 |
| Gly | Leu | Ser | Ala | Leu | Leu | Gly | Ser | Pro | Met | Gly | Ser | Glu | Gln | Thr | Arg | 645 | 650 | 655 | |

5537

Leu Asp Leu Glu Gln Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu
 660 665 670
 Glu Leu Glu Asn Val Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro
 675 680 685
 Pro Pro Thr Asn Phe Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro
 690 695 700

<210> 6304

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6304

Leu Pro Leu Leu Gln Xaa Glu Met Cys Ile Arg Asp Ser Tyr Arg Arg
 1 5 10 15
 Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 20 25 30
 Ala His Ala Ser Ala Asp Ala Trp Ala Val Thr Glu Ile Ile Phe Pro
 35 40 45
 Tyr Glu Gln Thr Leu Cys Val Arg Pro Val Ser His Met Ser Arg Ala
 50 55 60
 Cys Val Gln Val Cys Phe Trp His Val Pro His
 65 70 75

<210> 6305

<211> 238

<212> PRT

<213> Homo sapiens

<400> 6305

Glu Ile Ser His Asn Leu Gly Val Cys Tyr Ile Tyr Leu Lys Gln Phe
 1 5 10 15

5538

Asn Lys Ala Gln Asp Gln Leu His Asn Ala Leu Asn Leu Asn Arg His
 20 25 30
 Asp Leu Thr Tyr Ile Met Leu Gly Lys Ile His Leu Leu Glu Gly Asp
 35 40 45
 Leu Asp Lys Ala Ile Glu Val Tyr Lys Lys Ala Val Glu Phe Ser Pro
 50 55 60
 Glu Asn Thr Glu Leu Leu Thr Thr Leu Gly Leu Leu Tyr Leu Gln Leu
 65 70 75 80
 Gly Ile Tyr Gln Lys Ala Phe Glu His Leu Gly Asn Ala Leu Thr Tyr
 85 90 95
 Asp Pro Thr Asn Tyr Lys Ala Ile Leu Ala Ala Gly Ser Met Met Gln
 100 105 110
 Thr His Gly Asp Phe Asp Val Ala Leu Thr Lys Tyr Arg Val Val Ala
 115 120 125
 Cys Ala Val Pro Glu Ser Pro Pro Leu Trp Asn Asn Ile Gly Met Cys
 130 135 140
 Phe Phe Gly Lys Lys Lys Tyr Val Ala Ala Ile Ser Cys Leu Lys Arg
 145 150 155 160
 Ala Asn Tyr Leu Ala Pro Phe Asp Trp Lys Ile Leu Tyr Asn Leu Gly
 165 170 175
 Leu Val His Leu Thr Met Gln Gln Tyr Ala Ser Ala Phe His Phe Leu
 180 185 190
 Ser Ala Ala Ile Asn Phe Gln Pro Lys Met Gly Glu Leu Tyr Met Leu
 195 200 205
 Leu Ala Val Ala Leu Thr Asn Leu Glu Asp Thr Glu Asn Ala Lys Arg
 210 215 220
 Ala Tyr Ala Glu Ala Val His Leu Asp Lys Tyr Ala Leu Cys
 225 230 235

<210> 6306

<211> 345

<212> PRT

<213> Homo sapiens

<400> 6306

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

5539

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Asp Ala Ala | 20 | 25 | 30 |
| Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu | 35 | 40 | 45 |
| Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Leu Cys Thr | 50 | 55 | 60 |
| Pro Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val | 65 | 70 | 75 |
| Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr | 85 | 90 | 95 |
| Leu Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser | 100 | 105 | 110 |
| Val Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys | 115 | 120 | 125 |
| Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu | 130 | 135 | 140 |
| Arg Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr | 145 | 150 | 155 |
| Ser Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val | 165 | 170 | 175 |
| Asp Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn | 180 | 185 | 190 |
| Ala Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile | 195 | 200 | 205 |
| Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu | 210 | 215 | 220 |
| Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr | 225 | 230 | 235 |
| Lys Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu | 245 | 250 | 255 |
| Pro Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly | 260 | 265 | 270 |
| Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser | | | |

5540

| | | |
|---|-----|-----|
| 275 | 280 | 285 |
| Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys | | |
| 290 | 295 | 300 |
| Phe Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His | | |
| 305 | 310 | 315 |
| Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro | | |
| | 325 | 330 |
| Ser Val Asn Gly His Gln Lys Ala Leu | | |
| 340 | 345 | |

<210> 6307

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (346)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (401)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6307

| |
|---|
| Xaa Val Arg Val Gln Thr Arg Gly Ser Ala Asp Pro Ala Gln Leu Arg |
| 1 5 10 15 |

| |
|---|
| Arg His Pro Gly Tyr Lys Arg Thr Ala Ser Ala Thr Leu Ser Asp Pro |
| 20 25 30 |

| |
|---|
| Ala Ala Ala Ala Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys |
| 35 40 45 |

| |
|---|
| Leu Leu Ala Ala Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys |
| 50 55 60 |

| |
|---|
| Phe Thr Ser Ile Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu |
| 65 70 75 80 |

5541

Asp Leu Ile Ala Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro
 85 90 95

Ala Val Thr Glu Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp
 100 105 110

Ala Gln Tyr Tyr Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe
 115 120 125

Thr Val Val Phe Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile
 130 135 140

His Cys Lys Leu Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn
 145 150 155 160

Ser Asp Lys Ser Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile
 165 170 175

His Tyr Gly Ser Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val
 180 185 190

Ser Val Pro Cys Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val
 195 200 205

Lys Val Glu Arg Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile
 210 215 220

Thr Phe Ile Ala Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro
 225 230 235 240

Arg Ile Ser Val Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln
 245 250 255

Gln Lys Leu Val Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp
 260 265 270

Pro Asp Ala Gln Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser
 275 280 285

Lys Tyr Tyr Lys Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala
 290 295 300

Tyr Trp Gln Val His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr
 305 310 315 320

Leu Cys Lys Glu Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu
 325 330 335

Met Val Gly Pro Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly
 340 345 350

5542

Ala Val Pro Leu Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val
355 360 365

Ser Thr Leu Pro Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys
370 375 380

Leu Ser Pro Glu Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr
385 390 395 400

Xaa Cys Leu Ser

<210> 6308

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6308

Asn Pro Val Ser Thr Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg
1 5 10 15

Thr Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
20 25 30

Lys Pro Arg Arg Arg Arg Leu Gln
35 40

<210> 6309

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

5543

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6309

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | His | Ser | Gly | Cys | Cys | Ile | Glu | Lys | Arg | Met | Trp | Trp | Thr | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Ala | Trp | Lys | Pro | Asp | Arg | Xaa | Ile | Ala | Ile | Thr | Gln | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Gly | Ser | Leu | Asp | Leu | Leu | Glu | Ala | Val | Xaa | Cys | Pro | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Xaa | Xaa | Xaa | Glu | Lys | Gly | Pro | Glu | Arg | Leu | Ile | Leu | Ile | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Asn | Gly | Pro | Met | Met |
| 65 | | | | |

<210> 6310

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6310

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Asp | Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Arg | Arg | Ser | Ser | Gly | Ser | Gly | Ser | Met | Ser | Ala | Gly | Gly | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Pro | Pro | Pro | Pro | Asn | Pro | Ala | Val | Ser | Phe | Pro | Pro | Pro | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Leu | Pro | Ala | Gly | Pro | Asp | Ile | Leu | Arg | Thr | Tyr | Ser | Gly | Ala |
| | 50 | | | | | | 55 | | | | 60 | | | | |

5544

Phe Val Cys Leu Glu Ile Leu Phe Gly Gly Leu Val Trp Ile Leu Val
 65 70 75 80
 Ala Ser Ser Asn Val Pro Leu Pro Leu Leu Gln Gly Trp Val Met Phe
 85 90 95
 Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly Met Phe
 100 105 110
 Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe Leu Asp
 115 120 125
 Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala Phe Leu
 130 135 140
 Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn Thr Thr
 145 150 155 160
 Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile Asn Val
 165 170 175
 Ala Xaa Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly Cys Lys
 180 185 190
 Phe Gly Ser Gly Phe Thr Lys Met Ala Thr Arg Asn Thr Ser
 195 200 205

<210> 6311

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6311

5545

Ala Phe Pro Trp Asp Leu Trp Pro Ser Trp Arg Gln Glu Pro Ser Ser
 1 5 10 15
 Pro Ser Thr Asp Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Leu
 20 25 30
 Leu Ser Leu Pro Ala Pro Trp Ala Xaa Phe Leu Leu Cys His Ser Leu
 35 40 45
 Gly Pro Thr Val Xaa Arg Gly Leu Leu Xaa Thr Gly Thr
 50 55 60

<210> 6312

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6312

Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met
 1 5 10 15
 Tyr Pro Lys Xaa Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu
 20 25 30
 Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu
 35 40 45
 Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr
 50 55 60
 Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val
 65 70 75 80
 Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly
 85 90 95
 Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val
 100 105 110
 Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp
 115 120 125
 Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly
 130 135 140

5546

Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp
 145 150 155 160

Ile Tyr Asn Val Trp Lys Ala Glu Leu
 165

<210> 6313

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6313

Arg Phe Ile Leu Lys Ser Val His Ile Gln His Lys Glu Arg Lys Asn
 1 5 10 15

Leu Thr Asn Leu Lys Ser Ala Val Ile Leu Ala His Val Asn Thr Ile
 20 25 30

Leu Ile Ser Trp Phe Ile Tyr Phe Leu Met Phe Val Ser Ile Tyr Ile
 35 40 45

Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile
 50 55 60

Tyr Ile Tyr Ile Tyr Ile Xaa Ile Pro Ser Ser Lys Trp Pro Val Ile
 65 70 75 80

Ala Cys Lys His Phe Phe
 85

<210> 6314

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6314

Gly Gly Tyr Ser Val Asp Ser Pro Thr Leu Thr Arg Phe Phe Thr Phe
 1 5 10 15

His Phe Ile Leu Pro Phe Ile Ile Ala Ala Leu Ala Ala Leu His Leu
 20 25 30

5547

Leu Phe Leu His Glu Thr Gly Ser Asn Asn Pro Leu Gly Ile Thr Ser
 35 40 45
 His Ser Asp Lys Ile Thr Phe His Pro Tyr Tyr Thr Ile Lys Asp Ala
 50 55 60
 Leu Gly Leu Leu Leu Phe Leu Leu Ser Leu Met Thr Leu Thr Leu Phe
 65 70 75 80
 Ser Pro Asp Leu Leu Gly Asp Pro Asp Asn Tyr Thr Leu Ala Asn Pro
 85 90 95
 Leu Asn Thr Pro Pro His Ile Lys Pro Glu
 100 105

<210> 6315
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 6315
 Asp Tyr Ala Arg Pro Lys Tyr Tyr Phe Gln Ile Glu Pro Ser Ser Trp
 1 5 10 15
 Val Ala Val Tyr Asn Thr Gln Val Glu Phe Gly Lys Cys Ser Pro Ser
 20 25 30
 Leu Pro Phe Phe Thr Val Asp Ala Ser Ala Ser Phe Leu Ser Leu His
 35 40 45
 Thr His Cys Pro Thr Ala Gly Phe Pro Phe Ser Phe Arg Ala Val Ala
 50 55 60
 Val Pro Phe Leu His Ser His Pro Ser Gln Trp Gln Pro Pro Leu Pro
 65 70 75 80
 Ser Cys Ile Leu Asn Pro Thr Leu Ile Ile Cys Leu Asp Phe Ala Phe
 85 90 95
 Leu Pro Ala Val Leu
 100

<210> 6316
 <211> 132
 <212> PRT
 <213> Homo sapiens

5548

<400> 6316

Gln Arg His Ala Gly Glu Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser
 1 5 10 15
 Leu Pro Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile
 20 25 30
 Asn Glu Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu
 35 40 45
 Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val
 50 55 60
 Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser
 65 70 75 80
 Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr
 85 90 95
 Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp
 100 105 110
 Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala
 115 120 125
 Glu Cys Thr Phe
 130

<210> 6317

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6317

Leu Xaa Arg Leu Gln Xaa Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15
 Val Gly Val Pro Glu Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys

5549

20 25 30
 Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
 35 40 45
 Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
 50 55 60
 Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
 65 70 75 80
 Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
 85 90 95
 Pro Leu Gln Glu Ala Glu Cys Thr Phe
 100 105

<210> 6318

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6318

Leu Leu Leu Leu Leu Cys Lys Gly Thr Tyr Ile Pro Gln Tyr Thr Pro
 1 5 10 15
 Val Pro Pro Thr Ala Val Ser Ile Glu Gly Val Val Ala Asp Thr Ser
 20 25 30
 Pro Gln Thr Val Ala Pro Ser Ser Gln Asp Thr Ser Gly Gln Gln Gln
 35 40 45
 Gln Ile Ala Val Asp Thr Ser Asn Glu His Ala Pro Ala Tyr Ser Tyr
 50 55 60
 Gln Gln Ser Lys Pro
 65

<210> 6319

<211> 96

<212> PRT

<213> Homo sapiens

<400> 6319

Thr Phe Lys Phe Ala Asn Gln Phe Leu Ala Arg Lys His Phe Cys Tyr
 1 5 10 15

5550

Thr Asn Ile Leu Leu Ser Leu Pro Lys Ala Pro Pro Met His Ser Phe
 20 25 30
 Asn Lys Ile Gln Ser Leu Tyr Phe Lys Val Ile Leu Val Met Lys Phe
 35 40 45
 Tyr Met Gln Arg Glu Lys Val Thr Glu Thr Glu Asn Lys Ser Lys Gly
 50 55 60
 Lys Glu Tyr Tyr Gly Ile Lys Leu Ser Lys Gln Phe Trp Trp Lys Val
 65 70 75 80
 Lys Pro Val Ser Ala Pro His Gln Gly Cys Gly Pro Pro Arg His Ala
 85 90 95

<210> 6320

<211> 285

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6320

Gly Arg Ala Pro Gly Arg Arg Val Gly Leu Arg Cys Ala Arg Arg Thr
 1 5 10 15
 Ser Glu Ala Ala Gly Ser Gly Ala Gly Pro Pro Gly Pro Leu Gln Gly
 20 25 30
 Arg Ser Gly Ser Ser Trp Ala Pro Arg Pro Gly Arg Arg Thr Glu Glu
 35 40 45
 Arg Arg Lys Gly Ala Gly Gly Thr Arg Pro Arg Pro Ala Ala Ala Met
 50 55 60
 Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val Tyr
 65 70 75 80
 Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys Val
 85 90 95
 Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu Gly
 100 105 110

5551

Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu Leu
 115 120 125
 Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu Thr
 130 135 140
 Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val Asn
 145 150 155 160
 Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val Leu
 165 170 175
 Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala Leu
 180 185 190
 Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr Ala
 195 200 205
 Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly Pro
 210 215 220
 Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala
 225 230 235 240
 Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly
 245 250 255
 Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala
 260 265 270
 Lys Lys Lys Thr Asp Lys Lys Xaa Ala Leu Arg Arg Leu
 275 280 285

<210> 6321

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6321

His Glu Arg Met Leu Asn Leu Thr Asp Arg Gln Val Lys Ile Trp Phe
 1 5 10 15
 Gln Asn Arg Arg Met Lys Glu Lys Lys Leu Asn Arg Asp Arg Leu Gln
 20 25 30
 Tyr Phe Thr Gly Asn Pro Leu Phe
 35 40

5552

<210> 6322

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6322

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Glu | Arg | Arg | Gln | Xaa | Val | Val | Lys | Lys | Ala | Asp | Met | Ile | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Met | Thr | His | Gln | Val | Gln | Ala | Glu | Arg | Asp | Ala | Leu | Ala | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Ser | Pro | Phe | Ile | Xaa | His | Leu | Tyr | Tyr | Ser | Leu | Gln | Ser | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Val | Tyr | Leu | Val | Met | Glu | Tyr | Leu | Ile | Gly | Gly | Asp | Val | Lys |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Leu | His | Ile | Tyr | Gly | Tyr | Phe | Asp | Glu | Glu | Met | Ala | Val | Lys |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Ser | Glu | Val | Ala | Leu | Ala | Leu | Asp | Tyr | Leu | His | Arg | His | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | His | Arg | Asp | Leu | Lys | Pro | Asp | Asn | Met | Leu | Ile | Ser | Asn | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gly | His | Ile | Lys | Leu | Thr |
| | | | | | 115 |

<210> 6323

<211> 405

5553

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6323

Met Glu Ala Glu Thr Pro Ser Thr Glu Val Pro Pro Asp Pro Glu Pro
 1 5 10 15

Gly Val Pro Leu Thr Pro Pro Ser Gln His Gln Glu Ala Gly Ala Gly
 20 25 30

Asp Leu Cys Ala Leu Cys Gly Glu His Leu Tyr Val Leu Glu Arg Leu
 35 40 45

Cys Val Asn Gly His Phe Phe His Arg Ser Cys Phe Arg Cys His Thr
 50 55 60

Cys Glu Ala Thr Leu Trp Pro Gly Gly Tyr Glu Gln His Pro Gly Asp
 65 70 75 80

Gly His Phe Tyr Cys Leu Gln His Leu Pro Gln Thr Asp His Lys Xaa
 85 90 95

Glu Gly Ser Asp Arg Gly Pro Glu Ser Pro Glu Leu Pro Thr Pro Ser
 100 105 110

Glu Asn Ser Met Pro Pro Gly Leu Ser Thr Pro Thr Ala Ser Gln Glu
 115 120 125

Gly Ala Gly Pro Val Pro Asp Pro Ser Gln Pro Thr Arg Arg Gln Ile
 130 135 140

Arg Leu Ser Ser Pro Glu Arg Gln Arg Leu Ser Ser Leu Asn Leu Thr
 145 150 155 160

Pro Asp Pro Glu Met Glu Pro Pro Pro Lys Pro Pro Arg Ser Cys Ser
 165 170 175

Ala Leu Ala Arg His Ala Leu Glu Ser Ser Phe Val Gly Trp Gly Leu
 180 185 190

Pro Val Gln Ser Pro Gln Ala Leu Val Ala Met Glu Lys Glu Glu Lys
 195 200 205

Glu Ser Pro Phe Ser Ser Glu Glu Glu Glu Glu Asp Val Pro Leu Asp
 210 215 220

5554

Ser Asp Val Glu Gln Ala Leu Gln Thr Phe Ala Lys Thr Ser Gly Thr
 225 230 235 240
 Met Asn Asn Tyr Pro Thr Trp Arg Arg Thr Leu Leu Arg Arg Ala Lys
 245 250 255
 Glu Glu Glu Met Lys Arg Phe Cys Lys Ala Gln Thr Ile Gln Arg Arg
 260 265 270
 Leu Asn Glu Ile Glu Ala Ala Leu Arg Glu Leu Glu Ala Glu Gly Val
 275 280 285
 Lys Leu Glu Leu Ala Leu Arg Arg Gln Ser Ser Ser Pro Glu Gln Gln
 290 295 300
 Lys Lys Leu Trp Val Gly Gln Leu Leu Gln Leu Val Asp Lys Lys Asn
 305 310 315 320
 Ser Leu Val Ala Glu Glu Ala Glu Leu Met Ile Thr Val Gln Glu Leu
 325 330 335
 Asn Leu Glu Glu Lys Gln Trp Gln Leu Asp Gln Glu Leu Arg Gly Tyr
 340 345 350
 Met Asn Arg Glu Glu Asn Leu Lys Thr Ala Ala Asp Arg Gln Ala Glu
 355 360 365
 Asp Gln Val Leu Arg Lys Leu Val Asp Leu Val Asn Gln Arg Asp Ala
 370 375 380
 Leu Ile Arg Phe Gln Glu Glu Arg Arg Leu Ser Glu Leu Ala Leu Gly
 385 390 395 400
 Thr Gly Ala Gln Gly
 405

<210> 6324

<211> 114

<212> PRT

<213> Homo sapiens

<400> 6324

Leu Ile Lys Trp Lys Ile Ser Lys Glu Cys Lys Ile Ile Trp Gly Glu
 1 5 10 15

Ser Cys Lys Met Trp Ser Phe Phe Thr Thr Asn Ile Phe Ser Pro Ser
 20 25 30

Asp Val Tyr Met Phe Tyr Asp Leu Lys Tyr Gln Thr Met Val Cys Asp

5555

35 40 45
 Ile Met Gly Leu Pro Leu Ala Gln Lys Arg Leu Leu Leu Ser Ser Ala
 50 55 60
 Cys Leu Met Thr Ile Gly Trp Ser Leu Leu Ser Leu Asn Phe Tyr Phe
 65 70 75 80
 Leu Ile Ile Leu Val Ala Ile Arg Leu Lys Arg Glu Cys Thr Trp Glu
 85 90 95
 Arg Ile Leu Lys Thr Asp Gln Ser Val Lys Cys His Val Leu Glu Lys
 100 105 110
 Ile Lys

<210> 6325

<211> 80

<212> PRT

<213> Homo sapiens

<400> 6325

Asn Thr Ala Thr Tyr Pro Gly Asn Met Lys Ile Leu Phe Val Glu Pro
 1 5 10 15
 Ala Ile Phe Leu Ser Ala Phe Ala Met Thr Leu Thr Gly Pro Leu Thr
 20 25 30
 Thr Gln Tyr Val Tyr Arg Arg Ile Trp Glu Glu Thr Gly Asn Tyr Thr
 35 40 45
 Phe Ser Ser Asp Ser Asn Ile Ser Glu Cys Glu Lys Asn Lys Ser Ser
 50 55 60
 Pro Ile Phe Ala Phe Gln Glu Val Arg Asn Tyr Asn Ile His Ser Ile
 65 70 75 80

<210> 6326

<211> 34

<212> PRT

<213> Homo sapiens

<400> 6326

5556

Phe Met Ile Trp Asn Ser Ile His Pro Phe Ser Gly Ile Lys Thr Phe
 1 5 10 15

Leu Asp Phe Phe Arg Ile Gly Ser Glu Leu Val Tyr Tyr Leu Ala Phe
 20 25 30

Ser Phe

<210> 6327

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6327

Cys Arg Leu Val Lys Ala Ser Leu Asp Glu Lys Ser Ala Thr Gly Trp
 1 5 10 15

Pro Pro Val Cys Phe Ala Met Arg Ile Asn Leu Leu Phe Val Cys Leu
 20 25 30

Lys Thr Pro Ile Ser Glu Ser Ser Val Leu Met Phe Val Glu His Asn
 35 40 45

Leu Ile Lys Asn Ile Lys Ile Phe Thr Leu Ala Phe Thr Leu Thr Val
 50 55 60

Xaa Gly Gly Xaa
 65

<210> 6328

<211> 25

<212> PRT

<213> Homo sapiens

<400> 6328

Gly Leu Leu Leu Val Pro Asn Ser Cys Arg Pro Gly Asp Pro Leu Val

5557

1 5 10 15
 Leu Glu Arg Pro Pro Arg Trp Ser
 20 25

 <210> 6329
 <211> 106
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6329
 Lys Gly Val Pro Arg Ala Gln Gln Gly Ala Lys Ser Gly Asp Ile Ala
 1 5 10 15

 Ser Glu His Pro Thr Cys Ala Thr His Val His Pro Pro Thr His Thr
 20 25 30

 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
 35 40 45

 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
 50 55 60

 His Ala His Thr Ala Trp Thr Leu Phe Pro Leu Cys Pro Trp Xaa His
 65 70 75 80

 Thr Pro Ser Lys Pro Leu Thr Phe Ile Ser Pro Cys Val Phe Ser Lys
 85 90 95

 Lys Val Tyr Gln Ala Arg Pro Pro Gly Gly
 100 105

<210> 6330
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 6330
 Asn Phe Pro Leu Pro Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg
 1 5 10 15

 Ala Ile Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser

5558

20 25 30
 Ser Leu Asp Ser Ile Thr Glu Glu Thr Ile Leu Gly Ala Met Lys Asp
 35 40 45
 Val Val Lys His Arg Thr Ser Ile Phe Ile Ala His Arg Leu Ser Thr
 50 55 60
 Val Val Asp Ala Asp Glu Ile Ile Val Leu Asp Gln Gly Lys Val Ala
 65 70 75 80
 Glu Arg Gly Thr His His Gly Leu Leu Ala Asn Pro His Ser Ile Tyr
 85 90 95
 Ser Glu Met Trp His Thr Gln Ser Ser Arg Val Gln Asn His Asp Asn
 100 105 110
 Pro Lys Trp Glu Ala Lys Lys Glu Asn Ile Ser Lys Glu Glu Glu Arg
 115 120 125
 Lys Lys Leu Gln Glu Glu Ile Val Asn Ser Val Lys Gly Cys Gly Asn
 130 135 140
 Cys Ser Cys
 145

<210> 6331

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6331

Cys Gln Gln Leu Met Asp Leu Thr Ala Asn Leu Asn Leu Leu Trp Ser
 1 5 10 15

Ala Pro Phe Gln Ile Leu Met Ala Val Tyr Leu Leu Trp Gln Glu Leu
 20 25 30

Gly Pro Ala Val Leu Ala Gly Val Ala Val Leu Val Phe Val Ile Pro
 35 40 45

Ile Asn Ala Leu Ala Ala Thr Lys Ile Lys Lys Leu Lys Val Ser Leu
 50 55 60

5559

Ala Thr Leu Cys Val Tyr Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr
65 70 75 80

Ala Thr Lys Val Phe Thr Ser Met Ser Leu Phe Asn Ile Leu Arg Ile
85 90 95

Pro Leu Phe Glu Leu Pro Thr Val Ile Ser Ala Val Val Gln Thr Lys
100 105 110

Ile Ser Leu Gly Arg Leu Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu
115 120 125

Pro Gln Ser Ile Glu Thr Asn Tyr Thr Gly Asp His Ala Ile Gly Phe
130 135 140

Thr Asp Ala Ser Phe Ser Trp Asp Lys Thr Gly Met Pro Val Leu Lys
145 150 155 160

Glu Ala Leu Trp Leu Met Xaa Leu Asn Lys Pro Gly Phe Lys Ile Ala
165 170 175

<210> 6332

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6332

Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala
1 5 10 15

Lys Cys Tyr His Glu Arg Arg Lys Leu Asp Phe Phe Val Leu Ile Met
20 25 30

Ala Ser Thr Cys Thr Phe Pro Glu Trp Ser Leu Leu Arg Pro Phe Leu
35 40 45

Val Pro Phe Gln Ser Cys Pro His His Pro Ala Pro Leu Ala Ser Val
50 55 60

His Ser Gly Pro Gln Pro Arg Pro Gly Leu Leu Cys Ser Ala Pro Thr
65 70 75 80

Ala His His Pro Ser Cys Phe Pro Glu Pro Asp Pro Val Pro Pro Thr
85 90 95

Gly Asn Gln Gly Cys Ala Leu Pro Cys Pro Arg Ser Pro Gly Leu Pro

5560

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Val Leu Ser Leu Leu Ile Ile Ile Asn Ser Gly Phe Gln Leu Gln Pro | | |
| 115 | 120 | 125 |

Arg

<210> 6333

<211> 93

<212> PRT

<213> Homo sapiens

<400> 6333

| |
|---|
| Asp Phe Gln Ile Asp Lys Cys Thr Gly Tyr Val Glu Val Gln Lys Ser |
| 1 5 10 15 |

| |
|---|
| Ile Thr Val Leu Gln His Ile Tyr Leu Gly Asn Leu Lys His Val Leu |
| 20 25 30 |

| |
|---|
| Leu Met Tyr Gln Ala Val Cys Cys Ser Gln Arg Asp Pro Ile Ser Ala |
| 35 40 45 |

| |
|---|
| Leu Gly Ile Leu Gly Glu Asn Met Tyr Lys Glu Ile Val Leu Ala His |
| 50 55 60 |

| |
|---|
| Ser Ser Lys Gly Ser Asp Gln Gly His Leu Ala Leu Arg Gly Asn Leu |
| 65 70 75 80 |

| |
|---|
| Gly Lys Val Pro Trp Arg Met Arg Leu Leu Lys Ser |
| 85 90 |

<210> 6334

<211> 76

<212> PRT

<213> Homo sapiens

<400> 6334

| |
|---|
| Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg |
| 1 5 10 15 |

| |
|---|
| Val Arg Asn Arg Glu Arg Lys Gly Gln Arg Trp Lys Ile Leu Phe Tyr |
| 20 25 30 |

| |
|---|
| Cys Phe Asp Phe Arg His Pro Glu Arg Val Thr Asn Phe Lys Thr Leu |
| 35 40 45 |

5561

Asn Lys Val Ala Leu Cys Trp Gly Arg Asn Leu Ala Ile Leu Val Thr
 50 55 60

Leu Lys Ser Arg Tyr Pro Phe Ser Leu Glu Ser Pro
 65 70 75

<210> 6335

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6335

Arg Asn Val Gln Leu Leu Thr Ala Ala Glu Thr Trp Glu Pro Arg Gly
 1 5 10 15

Pro Leu Ser Ser Gln Pro Pro Pro Pro Ser Ser Arg Ala Gly Pro Pro
 20 25 30

Arg Pro Arg Leu Leu Leu Thr Pro Arg Pro Gly Ala Arg Phe Cys Gly
 35 40 45

Ser Ile Ile Leu Cys His Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe
 50 55 60

Val Gln Ile Lys Phe Asp Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly
 65 70 75 80

Gly Ser Phe Gly Ser Val Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys
 85 90 95

Glu Val Ala Val Lys Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile
 100 105 110

Leu Ser Val Leu Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile
 115 120 125

Leu Glu Pro Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly
 130 135 140

Ser Leu Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met
 145 150 155 160

Asp His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr
 165 170 175

5562

Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys Ser
 180 185 190
 Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys Asp Phe
 195 200 205
 Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser Leu Val Gly
 210 215 220
 Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser Leu Pro Val Ser
 225 230 235 240
 Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val Leu Trp Glu Met Leu
 245 250 255
 Thr Arg Glu Val Pro Phe Lys Gly Leu Glu Gly Leu Gln Val Ala Trp
 260 265 270
 Leu Val Val Glu Lys Asn Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro
 275 280 285
 Arg Ser Phe Ala Glu Leu Leu His Gln Cys Trp Glu Ala Asp Ala Lys
 290 295 300
 Lys Arg Pro Ser Phe Lys Gln Ile Ile Ser Ile Leu Glu Ser Met Ser
 305 310 315 320
 Asn Asp Thr Ser Leu Leu Thr Ser Val Thr His Ser Tyr Thr Thr Arg
 325 330 335
 Arg Ser Gly Xaa Ala Lys Leu Arg Gln Leu Leu Arg Gly
 340 345

<210> 6336

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6336

His Phe Gly Arg Pro Arg Gln Ala Asp His Leu Arg Ser Gly Val Gln
 1 5 10 15
 Asn Gln Pro Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln
 20 25 30
 Lys Lys Ile Ser Arg Ala Trp Trp His Val Pro Val Ile Pro Ala Thr
 35 40 45

5563

Trp Glu Thr Glu Ala Gly Glu Leu Leu Glu Pro Gly Arg Arg Arg Leu
 50 55 60

Gln
 65

<210> 6337
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 6337
 Ser Arg Asp Trp Val Thr Asn Asn Thr Arg Thr Lys Leu Arg Asp His
 1 5 10 15
 Tyr Ser Ser Ile Ser Pro Ser Phe His Lys Thr Ala Val Lys Met Phe
 20 25 30
 Asp Ile Lys Ala Trp Ala Glu Tyr Val Val Glu Trp Ala Ala Lys Asp
 35 40 45
 Pro Tyr Gly Phe Leu Thr Thr Val Ile Leu Ala Leu Thr Pro Leu Phe
 50 55 60
 Leu Ala Ser Ala Val Leu Ser Trp Lys Leu Ala Lys Met Ile Glu Ala
 65 70 75 80
 Arg Glu Lys Glu Gln Lys Lys Lys Gln Lys Arg Gln Glu Asn Ile Ala
 85 90 95
 Lys Ala Lys Arg Leu Lys Lys Asp
 100

<210> 6338
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 6338
 Thr His Trp Phe Gln Arg Pro Leu Arg Met Cys Leu Pro Ser Gln Ile
 1 5 10 15
 Trp Ala Phe Pro Val Pro Lys His His Leu Gly Gly Ser Leu Trp Val
 20 25 30
 Leu Ile Ser Ser His Met Phe Thr Pro His Val Gly Leu Pro Asn Cys
 35 40 45

5564

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|
| Pro | Pro | Gln | Gly | Lys | Pro | Phe | Leu | Pro | Thr | Ser | Arg | Lys | Leu | Leu | Val | | |
| 50 | | | | 55 | | | | 60 | | | | | | | | | |
| Pro | Trp | Pro | Ser | His | Thr | Ser | Asp | Leu | Val | Pro | Leu | Pro | Gly | Pro | Val | | |
| 65 | | | | 70 | | | | 75 | | | | | | | | 80 | |
| Gly | Phe | Asn | Asn | Leu | Val | Ser | Ser | Leu | Pro | Arg | Asn | Pro | Leu | Cys | Leu | | |
| | | | | 85 | | | | 90 | | | | 95 | | | | | |
| Glu | Cys | Ser | Pro | Pro | Ser | Gln | Pro | Leu | Ser | His | Thr | Ile | Phe | Ser | Phe | | |
| | | | | 100 | | | | 105 | | | | 110 | | | | | |
| Leu | Ser | Ser | Thr | Lys | Arg | Trp | Asp | Lys | Pro | Val | Cys | Thr | Gln | Cys | Leu | | |
| | | | | 115 | | | | 120 | | | | 125 | | | | | |
| Trp | Asp | Asn | Arg | Arg | Arg | Asn | Leu | Glu | Phe | Gly | Trp | Val | Ile | Lys | Leu | | |
| 130 | | | | 135 | | | | 140 | | | | | | | | | |
| Trp | Asn | | | | | | | | | | | | | | | | |
| 145 | | | | | | | | | | | | | | | | | |

<210> 6339

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6339

Ser Ile Ile Pro Phe Lys Cys Tyr Phe Gln Phe Trp Gly Ile Phe Phe
1 5 10 15

Phe Trp Ser Phe Cys Cys Xaa Cys Ser Phe Phe Thr Ile Pro Lys Met
20 25 30

5565

Leu Gln Gln Ile Phe Phe Tyr Arg Leu Asn Val Ala Tyr Pro Lys Tyr
 35 40 45

Leu Gly Pro Glu Val Leu Gly Ile Ser Asp Phe Gln Ile Arg Asp Xaa
 50 55 60

Xaa Pro Val Tyr Thr Ser Leu His
 65 70

<210> 6340

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6340

His Leu Asn Val Asp Arg Lys Arg Pro Cys Ser Ile Glu Asp Arg Arg
 1 5 10 15

Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala Ser Gly Leu Asn
 20 25 30

Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys Arg Pro Arg Ser
 35 40 45

Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro Ala Ala Ala Leu
 50 55 60

Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly
 65 70 75 80

Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys
 85 90 95

Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys
 100 105 110

Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly
 115 120 125

5566

[illegible]

5567

<210> 6341

<211> 124

<212> PRT

<213> Homo sapiens

<400> 6341

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Ala | Cys | Pro | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Pro | Thr | Arg | Pro | Pro | Thr | Arg | Pro | Pro | Thr | Arg | Pro | Leu | Cys |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Met | Gly | Val | Pro | Tyr | Cys | Ile | Ile | Lys | Gly | Lys | Ala | Arg | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Leu | Val | His | Arg | Lys | Thr | Cys | Thr | Thr | Val | Ala | Phe | Thr | Gln |
| | | 50 | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asn | Ser | Glu | Asp | Lys | Gly | Ala | Leu | Ala | Lys | Leu | Val | Glu | Ala | Ile |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Asn | Tyr | Asn | Asp | Arg | Tyr | Asp | Glu | Ile | Arg | Arg | His | Trp | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Val | Leu | Gly | Pro | Lys | Ser | Val | Ala | Arg | Ile | Ala | Lys | Leu | Glu |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Lys | Ala | Lys | Glu | Leu | Ala | Thr | Lys | Leu | Gly |
| | | 115 | | | | | 120 | | | | |

<210> 6342

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6342

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Lys | Arg | Arg | Arg | Glu | Val | Lys | Asp | Gln | Ser | Leu | Ile | Gly | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | His | Ser | Gly | Ser | Ser | Leu | Gln | Ser | Asp | Pro | His | Phe | Gly | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5568

Ser Leu Gly Pro Ser Ser Gly Pro Arg Ser Ile Arg Leu His Pro Pro
 35 40 45

Ser Leu Phe Arg Ile Leu Ser Cys Ala Xaa Pro Thr Pro Gly Ser Arg
 50 55 60

Ser Gln Thr Ser Ser His Gly Trp Ser Leu Leu Pro Ser Ala Val Arg
 65 70 75 80

Pro Pro Gly Thr Gln Ala Pro Gly Phe Gly Arg Ser Gly Val Ser Ser
 85 90 95

Arg Trp Val Ser Ala Pro Thr Gly Thr Cys Thr Ser Cys Gln
 100 105 110

<210> 6343

<211> 226

<212> PRT

<213> Homo sapiens

<400> 6343

Thr Glu Gly Tyr Gly Cys Gln Lys Thr Thr Glu Gly Tyr Gly Cys Glu
 1 5 10 15

Lys Thr Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser
 20 25 30

Ser Ser Phe Ala Pro Arg Val His Gly Ser Ser Phe Ser Phe Pro Leu
 35 40 45

Gly Arg Glu Glu Ala Met Ala Ala Met Ala Ser Leu Gly Ala Leu Ala
 50 55 60

Leu Leu Leu Leu Ser Ser Leu Ser Arg Cys Ser Ala Glu Ala Cys Leu
 65 70 75 80

Glu Pro Gln Ile Thr Pro Ser Tyr Tyr Thr Thr Ser Asp Ala Val Ile
 85 90 95

Ser Thr Glu Thr Val Phe Ile Val Glu Ile Ser Leu Thr Cys Lys Asn
 100 105 110

Arg Val Gln Asn Met Ala Leu Tyr Ala Asp Val Gly Gly Lys Gln Phe
 115 120 125

Pro Val Thr Arg Gly Gln Asp Val Gly Arg Tyr Gln Val Ser Trp Ser
 130 135 140

Leu Asp His Lys Ser Ala His Ala Gly Thr Tyr Glu Val Arg Phe Phe

5569

145 150 155 160
 Asp Glu Glu Ser Tyr Ser Leu Leu Arg Lys Ala Gln Arg Asn Asn Glu
 165 170 175
 Asp Ile Ser Ile Ile Pro Pro Leu Phe Thr Val Ser Val Asp His Arg
 180 185 190
 Gly Thr Trp Asn Gly Pro Trp Val Ser Thr Glu Val Leu Ala Ala Ala
 195 200 205
 Ile Gly Leu Val Ile Tyr Tyr Leu Ala Phe Ser Ala Lys Ser His Ile
 210 215 220
 Gln Ala
 225

<210> 6344

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6344

Ser Pro Arg Pro Leu Arg Phe Cys Gly Gly Ala Arg Ala Arg Arg Pro
 1 5 10 15
 Leu Ser Ala Val Ala Arg Pro Ala Arg Ser Ser Asp Pro Leu Arg Ser
 20 25 30
 Ala Pro Leu Gly Pro Ala Pro Pro Val Asn Met Ile Arg Cys Gly Leu
 35 40 45
 Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu Leu Ser Ala
 50 55 60
 Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly Arg Gly Trp Leu Gln Ser
 65 70 75 80
 Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys Ser Gln Glu
 85 90 95
 Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu
 100 105 110

5570

Tyr Ala Trp Gly Arg Ala Ala Ala Ala Met Leu Phe Cys Gly Phe Ile
 115 120 125
 Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro
 130 135 140
 Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala
 145 150 155 160
 Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr
 165 170 175
 Gln Thr Phe Thr Leu His Ala Asn Xaa Ala Val Thr Tyr Ile Tyr Asn
 180 185 190
 Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly Cys
 195 200 205
 Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu Leu Gly
 210 215 220
 Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala
 225 230 235

<210> 6345

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6345

Gly Asn Leu His Gly Ile Leu Arg Asp Phe Tyr Ser Pro Leu Val Pro
 1 5 10 15
 Asp Ser Met Lys Phe Glu Ile Gly Glu Ala Leu Tyr Leu Gly Ile Ile
 20 25 30
 Ser Ser Leu Phe Ser Leu Ile Ala Gly Ile Ile Leu Cys Phe Ser Cys
 35 40 45
 Ser Ser Gln Arg Asn Arg Ser Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln
 50 55 60
 Pro Leu Ala Thr Arg Ser Ser Pro Arg Pro Gly Gln Pro Pro Lys Val
 65 70 75 80

5571

Lys Ser Glu Phe Asn Ser Tyr Xaa
85

<210> 6346

<211> 105

<212> PRT

<213> Homo sapiens

<400> 6346

Gly Ser Val Ala Gln Ser Arg Pro Ala Tyr Leu Ser Lys Asn Ser Lys
1 5 10 15

Ser Leu Ser Gln Pro Thr Gly Leu Asn Leu His Trp Lys Pro Thr Cys
20 25 30

Trp His Pro Arg Ser Pro Thr Leu Leu Ala Trp Val Gly Glu Ala Lys
35 40 45

Asp His Pro Lys Phe Thr His Leu Ser Ser Ala Ala Ser His Trp Ala
50 55 60

Ser Ala Ala Pro Gln His Gln Phe Thr Gly His Pro Ser Leu Leu Ala
65 70 75 80

Leu Ser Pro Asn Leu Leu Ser Ile Pro Arg Ser Asn Leu Pro Leu Arg
85 90 95

Ser Ala Arg Asn Ser Phe Arg Pro His
100 105

<210> 6347

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5572

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6347

Arg Cys Cys Leu Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala
 1 5 10 15

Gln Asp Phe Cys Gln Xaa Val Ala Gln Lys Gln Xaa Arg Pro Thr Asp
 20 25 30

Leu Asp Val Asp Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro
 35 40 45

Asp Pro Asp Leu Val Leu Lys Phe Gly Pro Val Asp Ser Thr Xaa Gly
 50 55 60

Phe Leu Pro Trp His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser
 65 70 75 80

His Leu Asn Ile Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr
 85 90 95

Ala Ala Cys Glu Gln Arg Leu Gly Lys
 100 105

<210> 6348

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6348

Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro
 1 5 10 15

Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe
 20 25 30

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro
 35 40 45

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe
 50 55 60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys
 65 70 75 80

Phe

5573

<210> 6349

<211> 100

<212> PRT

<213> Homo sapiens

<400> 6349

Leu Lys Ile Asn Pro Ser Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg
 1 5 10 15

Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser
 20 25 30

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr
 35 40 45

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn
 50 55 60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu
 65 70 75 80

Asn Gly Glu Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala
 85 90 95

Leu Asn Phe Cys
 100

<210> 6350

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

5574

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6350

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Xaa | Trp | Xaa | Ala | Ile | Pro | Asp | Thr | Ile | Asp | Xaa | Thr | Pro | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg | Pro | Pro | Ala | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Met | Val | Val | Ser | Gly | Ala | Pro | Pro | Ala | Leu | Gly | Gly | Gly | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Thr | Phe | Thr | Ser | Leu | Leu | Leu | Leu | Ala | Ser | Thr | Ala | Ile | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ala | Ala | Arg | Ile | Pro | Val | Pro | Pro | Ala | Cys | Gly | Lys | Pro | Gln | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asn | Arg | Val | Val | Gly | Gly | Glu | Asp | Ser | Thr | Asp | Ser | Glu | Trp | Pro |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ile | Val | Ser | Ile | Xaa | Lys | Asn | Gly | Thr | His | His | Cys | Ala | Gly | Ser |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Thr | Ser | Arg | Trp | Val | Ile | Thr | Ala | Ala | His | Cys | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5575

Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu Leu Gly Ala Trp Gln
 130 135 140
 Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys Val Gly Val Ala Trp Val
 145 150 155 160
 Glu Pro His Pro Val Tyr Ser Trp Lys Glu Gly Ala Cys Ala Asp Ile
 165 170 175
 Ala Leu Val Arg Leu Glu Arg Ser Ile Gln Phe Ser Glu Arg Val Leu
 180 185 190
 Pro Ile Cys Leu Pro Asp Ala Ser Ile Xaa Xaa Pro Pro Asn Thr His
 195 200 205
 Cys Trp Ile Ser Gly Trp Gly Ser Ile Gln Asp Gly Val Pro Leu Pro
 210 215 220
 Thr Leu Arg Pro Cys Xaa Ser
 225 230

<210> 6351

<211> 240

<212> PRT

<213> Homo sapiens

<400> 6351

Gly Phe Pro Gly Thr Gly Ser Gly Gln Gly Ile Arg Pro Thr His Pro
 1 5 10 15
 Arg Gly Lys Pro Gly Pro Ser Gly Ala Asp Arg Gly Pro His Gly Pro
 20 25 30
 Arg Gly Gly Arg Arg Arg Leu Gly Val Ala Gly Arg Ala Ser Arg Val
 35 40 45
 Asp Arg Ala His Ala Ala Ala Ala His Thr Gly Leu Gly Glu Glu Phe
 50 55 60
 His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu Ala Arg Asp
 65 70 75 80
 Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp Ser Met Ala Thr
 85 90 95
 Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu Glu Phe Pro His Met
 100 105 110
 Arg Asp Ile Val Ile Ala Glu Thr Leu Glu Asp Leu Asp Arg Asn Lys

5576

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| Asp Gly Tyr Val Gln Val Glu Glu Tyr Ile Ala Asp Leu Tyr Ser Ala | | |
| 130 | 135 | 140 |
| Glu Pro Gly Glu Glu Glu Pro Ala Trp Val Gln Thr Glu Arg Gln Gln | | |
| 145 | 150 | 155 |
| Phe Arg Asp Phe Arg Asp Leu Asn Lys Asp Gly His Leu Asp Gly Ser | | |
| 165 | 170 | 175 |
| Glu Val Gly His Trp Val Leu Pro Pro Ala Gln Asp Gln Pro Leu Val | | |
| 180 | 185 | 190 |
| Glu Ala Asn His Leu Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg | | |
| 195 | 200 | 205 |
| Leu Ser Lys Ala Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser | | |
| 210 | 215 | 220 |
| Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu | | |
| 225 | 230 | 235 |
| | | 240 |

<210> 6352

<211> 505

<212> PRT

<213> Homo sapiens

<400> 6352

| | | |
|---|----|----|
| His Arg Arg Gly Ser Ile Pro Arg Gln Gln Leu Ser Pro Thr Ala Phe | | |
| 1 | 5 | 10 |
| Pro Ala Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr | | |
| 20 | 25 | 30 |
| Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser | | |
| 35 | 40 | 45 |
| Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly | | |
| 50 | 55 | 60 |
| Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu | | |
| 65 | 70 | 75 |
| Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala | | |
| 85 | 90 | 95 |

5577

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Asn | Leu | Pro | Gly | Thr | Asn | Leu | Arg | Lys | Leu | Tyr | Leu | Gln | Asp | 100 | 105 | 110 |
| Asn | His | Ile | Asn | Arg | Val | Pro | Pro | Asn | Ala | Phe | Ser | Tyr | Leu | Arg | Gln | 115 | 120 | 125 |
| Leu | Tyr | Arg | Leu | Asp | Met | Ser | Asn | Asn | Asn | Leu | Ser | Asn | Leu | Pro | Gln | 130 | 135 | 140 |
| Gly | Ile | Phe | Asp | Asp | Leu | Asp | Asn | Ile | Thr | Gln | Leu | Ile | Leu | Arg | Asn | 145 | 150 | 155 |
| Asn | Pro | Trp | Tyr | Cys | Gly | Cys | Lys | Met | Lys | Trp | Val | Arg | Asp | Trp | Leu | 165 | 170 | 175 |
| Gln | Ser | Leu | Pro | Val | Lys | Val | Asn | Val | Arg | Gly | Leu | Met | Cys | Gln | Ala | 180 | 185 | 190 |
| Pro | Glu | Lys | Val | Arg | Gly | Met | Ala | Ile | Lys | Asp | Leu | Asn | Ala | Glu | Leu | 195 | 200 | 205 |
| Phe | Asp | Cys | Lys | Asp | Ser | Gly | Ile | Val | Ser | Thr | Ile | Gln | Ile | Thr | Thr | 210 | 215 | 220 |
| Ala | Ile | Pro | Asn | Thr | Val | Tyr | Pro | Ala | Gln | Gly | Gln | Trp | Pro | Ala | Pro | 225 | 230 | 235 |
| Val | Thr | Lys | Gln | Pro | Asp | Ile | Lys | Asn | Pro | Lys | Leu | Thr | Lys | Asp | Gln | 245 | 250 | 255 |
| Gln | Thr | Thr | Gly | Ser | Pro | Ser | Arg | Lys | Thr | Ile | Thr | Ile | Thr | Val | Lys | 260 | 265 | 270 |
| Ser | Val | Thr | Ser | Asp | Thr | Ile | His | Ile | Ser | Trp | Lys | Leu | Ala | Leu | Pro | 275 | 280 | 285 |
| Met | Thr | Ala | Leu | Arg | Leu | Ser | Trp | Leu | Lys | Leu | Gly | His | Ser | Pro | Ala | 290 | 295 | 300 |
| Phe | Gly | Ser | Ile | Thr | Glu | Thr | Ile | Val | Thr | Gly | Glu | Arg | Ser | Glu | Tyr | 305 | 310 | 315 |
| Leu | Val | Thr | Ala | Leu | Glu | Pro | Asp | Ser | Pro | Tyr | Lys | Val | Cys | Met | Val | 325 | 330 | 335 |
| Pro | Met | Glu | Thr | Ser | Asn | Leu | Tyr | Leu | Phe | Asp | Glu | Thr | Pro | Val | Cys | 340 | 345 | 350 |
| Ile | Glu | Thr | Glu | Thr | Ala | Pro | Leu | Arg | Met | Tyr | Asn | Pro | Thr | Thr | Thr | 355 | 360 | 365 |

5578

Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro
 370 375 380
 Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu
 385 390 395 400
 Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser
 405 410 415
 Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala
 420 425 430
 Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr
 435 440 445
 Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu
 450 455 460
 Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys
 465 470 475 480
 Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly
 485 490 495
 Ile Pro Asp Ser Asp His Ser His Ser
 500 505

<210> 6353

<211> 719

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (647)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5579

<221> SITE

<222> (650)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6353

Thr Ala Trp Pro Ala Ser Trp Thr Thr Pro Pro Ala Ser Ser Met Ser
 1 5 10 15

Arg Asp Leu Leu Phe Lys His Tyr Cys Tyr Pro Glu Arg Asp Pro Glu
 20 25 30

Glu Val Phe Ala Phe Leu Leu Arg Phe Pro His Val Ala Leu Phe Thr
 35 40 45

Phe Asp Gly Leu Asp Glu Leu His Ser Asp Leu Asp Leu Ser Arg Val
 50 55 60

Pro Asp Ser Ser Cys Pro Trp Glu Pro Ala His Pro Leu Val Leu Leu
 65 70 75 80

Ala Asn Leu Leu Ser Gly Lys Leu Leu Lys Gly Ala Ser Lys Leu Leu
 85 90 95

Thr Ala Arg Thr Gly Ile Glu Val Pro Arg Gln Phe Leu Arg Lys Lys
 100 105 110

Val Leu Leu Arg Gly Phe Ser Pro Ser His Leu Arg Ala Tyr Ala Arg
 115 120 125

Arg Met Phe Pro Glu Arg Ala Leu Gln Asp Arg Leu Leu Ser Gln Leu
 130 135 140

Glu Ala Asn Pro Asn Leu Cys Ser Leu Cys Ser Val Pro Leu Phe Cys
 145 150 155 160

Trp Ile Ile Phe Arg Cys Phe Gln His Phe Arg Ala Ala Phe Glu Gly
 165 170 175

Ser Pro Gln Leu Pro Asp Cys Thr Met Thr Leu Thr Asp Val Phe Leu
 180 185 190

Leu Val Thr Glu Val His Leu Asn Arg Met Gln Pro Ser Ser Leu Val
 195 200 205

Gln Arg Asn Thr Arg Ser Pro Val Glu Thr Leu His Ala Gly Arg Asp
 210 215 220

Thr Leu Cys Ser Leu Gly Gln Val Ala His Arg Gly Met Glu Lys Ser
 225 230 235 240

Leu Phe Val Phe Thr Gln Glu Glu Val Xaa Ala Ser Gly Leu Gln Glu

5580

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| 245 | | | | | | | 250 | | | | | | | 255 | | | | | | |
| Arg | Asp | Met | Gln | Leu | Gly | Phe | Leu | Arg | Ala | Leu | Pro | Glu | Leu | Gly | Pro | | | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | | | |
| Gly | Gly | Asp | Gln | Gln | Xaa | Tyr | Glu | Phe | Phe | His | Leu | Thr | Leu | Gln | Ala | | | | | |
| | | | 275 | | | | | 280 | | | | | 285 | | | | | | | |
| Phe | Phe | Thr | Ala | Phe | Phe | Leu | Val | Leu | Asp | Asp | Arg | Val | Gly | Thr | Gln | | | | | |
| | | | | | | | | 295 | | | | | 300 | | | | | | | |
| Glu | Leu | Leu | Arg | Phe | Phe | Gln | Glu | Trp | Met | Pro | Pro | Ala | Gly | Ala | Ala | | | | | |
| 305 | | | | | | 310 | | | | | 315 | | | | | 320 | | | | |
| Thr | Thr | Ser | Cys | Tyr | Pro | Pro | Phe | Leu | Pro | Phe | Gln | Cys | Leu | Gln | Gly | | | | | |
| | | | 325 | | | | | | | | 330 | | | | | 335 | | | | |
| Ser | Gly | Pro | Ala | Arg | Glu | Asp | Leu | Phe | Lys | Asn | Lys | Asp | His | Phe | Gln | | | | | |
| | | | 340 | | | | | 345 | | | | | 350 | | | | | | | |
| Phe | Thr | Asn | Leu | Phe | Leu | Cys | Gly | Leu | Leu | Ser | Lys | Ala | Lys | Gln | Lys | | | | | |
| | | | 355 | | | | | 360 | | | | | 365 | | | | | | | |
| Leu | Leu | Arg | His | Leu | Val | Pro | Ala | Ala | Ala | Leu | Arg | Arg | Lys | Arg | Lys | | | | | |
| 370 | | | | | | 375 | | | | | 380 | | | | | | | | | |
| Ala | Leu | Trp | Ala | His | Leu | Phe | Ser | Ser | Leu | Arg | Gly | Tyr | Leu | Lys | Ser | | | | | |
| 385 | | | | | | 390 | | | | | 395 | | | | | 400 | | | | |
| Leu | Pro | Arg | Val | Gln | Val | Glu | Ser | Phe | Asn | Gln | Val | Gln | Ala | Met | Pro | | | | | |
| | | | 405 | | | | | | | | 410 | | | | | 415 | | | | |
| Thr | Phe | Ile | Trp | Met | Leu | Arg | Cys | Ile | Tyr | Glu | Thr | Gln | Ser | Gln | Lys | | | | | |
| | | | 420 | | | | | | | | 425 | | | | | 430 | | | | |
| Val | Gly | Gln | Leu | Ala | Ala | Arg | Gly | Ile | Cys | Ala | Asn | Tyr | Leu | Lys | Leu | | | | | |
| | | | 435 | | | | | 440 | | | | | 445 | | | | | | | |
| Thr | Tyr | Cys | Asn | Ala | Cys | Ser | Ala | Asp | Cys | Ser | Ala | Leu | Ser | Phe | Val | | | | | |
| 450 | | | | | | 455 | | | | | 460 | | | | | | | | | |
| Leu | His | His | Phe | Pro | Lys | Arg | Leu | Ala | Leu | Asp | Leu | Asp | Asn | Asn | Asn | | | | | |
| 465 | | | | | | 470 | | | | | 475 | | | | | 480 | | | | |
| Leu | Asn | Asp | Tyr | Gly | Val | Arg | Glu | Leu | Gln | Pro | Cys | Phe | Ser | Arg | Leu | | | | | |
| | | | 485 | | | | | | | | 490 | | | | | 495 | | | | |
| Thr | Val | Leu | Arg | Leu | Ser | Val | Asn | Gln | Ile | Thr | Asp | Gly | Gly | Val | Lys | | | | | |
| | | | 500 | | | | | | | | 505 | | | | | 510 | | | | |
| Val | Leu | Ser | Glu | Glu | Leu | Thr | Lys | Tyr | Lys | Ile | Val | Thr | Tyr | Leu | Gly | | | | | |

5581

| | | |
|---|-----|-----|
| 515 | 520 | 525 |
| Leu Tyr Asn Asn Gln Ile Thr Asp Val Gly Ala Arg Tyr Val Thr Lys | | |
| 530 | 535 | 540 |
| Ile Leu Asp Glu Cys Lys Gly Leu Thr His Leu Lys Leu Gly Lys Asn | | |
| 545 | 550 | 555 |
| Lys Ile Thr Ser Glu Gly Gly Lys Tyr Leu Ala Leu Ala Val Lys Asn | | |
| 565 | 570 | 575 |
| Ser Lys Ser Ile Ser Glu Val Gly Met Trp Gly Asn Gln Val Gly Asp | | |
| 580 | 585 | 590 |
| Glu Gly Ala Lys Ala Phe Ala Glu Ala Leu Arg Asn His Pro Ser Leu | | |
| 595 | 600 | 605 |
| Thr Thr Leu Ser Leu Ala Ser Asn Gly Ile Ser Thr Glu Gly Gly Lys | | |
| 610 | 615 | 620 |
| Ser Leu Ala Arg Ala Leu Gln Gln Asn Thr Ser Leu Glu Ile Leu Trp | | |
| 625 | 630 | 635 |
| Leu Thr Gln Asn Glu Leu Xaa Asp Glu Xaa Ala Glu Ser Leu Ala Glu | | |
| 645 | 650 | 655 |
| Met Leu Lys Val Asn Gln Thr Leu Lys His Leu Trp Leu Ile Gln Asn | | |
| 660 | 665 | 670 |
| Gln Ile Thr Ala Lys Gly Thr Ala Gln Leu Ala Asp Ala Leu Gln Ser | | |
| 675 | 680 | 685 |
| Asn Thr Gly Ile Thr Glu Ile Cys Leu Asn Gly Asn Leu Ile Lys Pro | | |
| 690 | 695 | 700 |
| Glu Glu Ala Lys Val Tyr Glu Asp Glu Lys Arg Ile Ile Cys Phe | | |
| 705 | 710 | 715 |

<210> 6354

<211> 729

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5582

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6354

Leu Ser Pro Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr Asp Leu Gly
 1 5 10 15

Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu Xaa Gln Pro
 20 25 30

Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro Pro Gln Met
 35 40 45

Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu Ala Ser Ala
 50 55 60

Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile Ser Thr Ser
 65 70 75 80

Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr Ser Ser Ser
 85 90 95

Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys Leu Pro Ser
 100 105 110

Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly Ser Met Ser
 115 120 125

Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly Gln Gln Thr
 130 135 140

Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser Ser Leu Pro
 145 150 155 160

Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp Arg Asp Lys
 165 170 175

Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr Tyr Pro Pro
 180 185 190

Ala Ile Val Xaa Tyr Ile Ile Asp Pro Phe Thr Tyr Glu Asn Thr Asp
 195 200 205

Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu Leu Arg Cys
 210 215 220

Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys Ser Thr Val
 225 230 235 240

Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro Val Lys His

255

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Arg | Glu | Ile | Tyr | Pro | Gln | His | Leu | Lys | Ser | Leu | Ala | Phe | Ser |
| | | | 260 | | | 265 | | | 270 | | | | | | |
| Ala | Phe | Thr | Gln | Cys | Arg | Arg | Pro | Leu | Pro | Thr | Ser | Thr | Asn | Val | Lys |
| | | | 275 | | | 280 | | | 285 | | | | | | |
| Thr | Leu | Thr | Gly | Phe | Gly | Pro | Gly | Leu | Ala | Met | Glu | Thr | Ala | Leu | Arg |
| | | | 290 | | | 295 | | | 300 | | | | | | |
| Ser | Pro | Asp | Arg | Pro | Glu | Cys | Ile | Arg | Leu | Tyr | Ala | Pro | Pro | Phe | Ile |
| 305 | | | 310 | | | 315 | | | 320 | | | | | | |
| Leu | Ala | Pro | Val | Lys | Asp | Lys | Gln | Thr | Glu | Leu | Gly | Glu | Thr | Phe | Gly |
| | | | 325 | | | 330 | | | 335 | | | | | | |
| Glu | Ala | Gly | Gln | Lys | Tyr | Asn | Val | Leu | Phe | Val | Gly | Tyr | Cys | Leu | Ser |
| | | | 340 | | | 345 | | | 350 | | | | | | |
| His | Asp | Gln | Arg | Trp | Ile | Leu | Ala | Ser | Cys | Thr | Asp | Leu | Tyr | Gly | Glu |
| | | | 355 | | | 360 | | | 365 | | | | | | |
| Leu | Leu | Glu | Thr | Cys | Ile | Ile | Asn | Ile | Asp | Val | Pro | Asn | Arg | Ala | Arg |
| 370 | | | 375 | | | 380 | | | | | | | | | |
| Arg | Lys | Lys | Ser | Ser | Ala | Arg | Lys | Phe | Gly | Leu | Gln | Lys | Leu | Trp | Glu |
| 385 | | | 390 | | | 395 | | | | | | 400 | | | |
| Trp | Cys | Leu | Gly | Leu | Val | Gln | Met | Ser | Ser | Leu | Pro | Trp | Arg | Val | Val |
| | | | 405 | | | 410 | | | 415 | | | | | | |
| Ile | Gly | Arg | Leu | Gly | Arg | Ile | Gly | His | Gly | Glu | Leu | Lys | Asp | Trp | Ser |
| | | | 420 | | | 425 | | | 430 | | | | | | |
| Cys | Leu | Leu | Ser | Arg | Arg | Asn | Leu | Gln | Ser | Leu | Ser | Lys | Arg | Leu | Lys |
| 435 | | | 440 | | | 445 | | | | | | | | | |
| Asp | Met | Cys | Arg | Met | Cys | Gly | Ile | Ser | Ala | Ala | Asp | Ser | Pro | Ser | Ile |
| 450 | | | 455 | | | 460 | | | | | | | | | |
| Leu | Ser | Ala | Cys | Leu | Val | Ala | Met | Glu | Pro | Gln | Gly | Ser | Phe | Val | Ile |
| 465 | | | 470 | | | 475 | | | | | | 480 | | | |
| Met | Pro | Asp | Ser | Val | Ser | Thr | Gly | Ser | Val | Phe | Gly | Arg | Ser | Thr | Thr |
| | | | 485 | | | 490 | | | 495 | | | | | | |
| Leu | Asn | Met | Gln | Thr | Ser | Gln | Leu | Asn | Thr | Pro | Gln | Asp | Thr | Ser | Cys |
| | | | 500 | | | 505 | | | 510 | | | | | | |
| Thr | His | Ile | Leu | Val | Phe | Pro | Thr | Ser | Ala | Ser | Val | Gln | Val | Ala | Ser |

5584

| 515 | | | | | 520 | | | | | 525 | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ala | Thr | Tyr | Thr | Thr | Glu | Asn | Leu | Asp | Leu | Ala | Phe | Asn | Pro | Asn | Asn | |
| 530 | | | | | 535 | | | | | 540 | | | | | | |
| Asp | Gly | Ala | Asp | Gly | Met | Gly | Ile | Phe | Asp | Leu | Leu | Asp | Thr | Gly | Asp | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | |
| Asp | Leu | Asp | Pro | Asp | Ile | Ile | Asn | Ile | Leu | Pro | Ala | Ser | Pro | Thr | Gly | |
| 565 | | | | | 570 | | | | | 575 | | | | | | |
| Ser | Pro | Val | His | Ser | Pro | Gly | Ser | His | Tyr | Pro | His | Gly | Gly | Asp | Ala | |
| 580 | | | | | 585 | | | | | 590 | | | | | | |
| Gly | Lys | Gly | Gln | Ser | Thr | Asp | Arg | Leu | Leu | Ser | Thr | Glu | Pro | His | Glu | |
| 595 | | | | | 600 | | | | | 605 | | | | | | |
| Glu | Val | Pro | Asn | Ile | Leu | Gln | Gln | Pro | Leu | Ala | Leu | Gly | Tyr | Phe | Val | |
| 610 | | | | | 615 | | | | | 620 | | | | | | |
| Ser | Thr | Ala | Lys | Ala | Gly | Pro | Leu | Pro | Asp | Trp | Phe | Trp | Ser | Ala | Cys | |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 | |
| Pro | Gln | Ala | Gln | Tyr | Gln | Cys | Pro | Leu | Phe | Leu | Lys | Ala | Ser | Leu | His | |
| 645 | | | | | 650 | | | | | 655 | | | | | | |
| Leu | His | Val | Pro | Ser | Val | Gln | Ser | Asp | Glu | Leu | Leu | His | Ser | Lys | His | |
| 660 | | | | | 665 | | | | | 670 | | | | | | |
| Ser | His | Pro | Leu | Asp | Ser | Asn | Gln | Thr | Ser | Asp | Val | Leu | Arg | Phe | Val | |
| 675 | | | | | 680 | | | | | 685 | | | | | | |
| Leu | Glu | Gln | Tyr | Asn | Ala | Leu | Ser | Trp | Leu | Thr | Cys | Asp | Pro | Ala | Thr | |
| 690 | | | | | 695 | | | | | 700 | | | | | | |
| Gln | Asp | Arg | Arg | Ser | Cys | Leu | Pro | Ile | His | Phe | Val | Val | Leu | Asn | Gln | |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 | |
| Leu | Tyr | Asn | Phe | Ile | Met | Asn | Met | Leu | | | | | | | | |
| 725 | | | | | | | | | | | | | | | | |

<210> 6355

<211> 552

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

5585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6355

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Leu | Thr | Arg | Arg | Glu | Gly | Thr | Gly | Pro | Arg | Pro | Arg | Ala | Ala | 1 | 5 | 10 | 15 |
| Gly | Ala | Gly | Ala | Arg | His | Val | His | Arg | Leu | Gly | Arg | Glu | Val | Ala | Ile | 20 | 25 | 30 | |
| Ala | Glu | Arg | Gln | Glu | Gly | Arg | Gly | Gly | Pro | Gly | Arg | Arg | Pro | Xaa | Val | 35 | 40 | 45 | |
| Gly | Arg | Arg | Trp | Gly | Arg | Pro | Ala | Arg | Leu | His | Leu | Arg | Ala | His | Gly | 50 | 55 | 60 | |
| Pro | Arg | Pro | Ser | Val | Arg | Thr | Gly | Leu | Pro | Ser | Val | Gly | Arg | Gln | Ala | 65 | 70 | 75 | 80 |
| Ala | Gly | Ala | Ala | Met | Gly | Arg | Gly | Trp | Gly | Phe | Leu | Phe | Gly | Leu | Leu | 85 | 90 | 95 | |
| Gly | Ala | Val | Trp | Leu | Leu | Ser | Ser | Gly | His | Gly | Glu | Glu | Gln | Pro | Pro | 100 | 105 | 110 | |
| Glu | Thr | Ala | Ala | Gln | Arg | Cys | Phe | Cys | Gln | Val | Ser | Gly | Tyr | Leu | Asp | 115 | 120 | 125 | |
| Asp | Cys | Thr | Cys | Asp | Val | Glu | Thr | Ile | Asp | Arg | Phe | Asn | Asn | Tyr | Arg | 130 | 135 | 140 | |
| Leu | Phe | Pro | Arg | Leu | Gln | Lys | Leu | Leu | Glu | Ser | Asp | Tyr | Phe | Arg | Tyr | 145 | 150 | 155 | 160 |
| Tyr | Lys | Val | Asn | Leu | Lys | Arg | Pro | Cys | Pro | Phe | Trp | Asn | Asp | Ile | Ser | 165 | 170 | 175 | |
| Gln | Cys | Gly | Arg | Arg | Asp | Cys | Ala | Val | Lys | Pro | Cys | Gln | Ser | Asp | Glu | 180 | 185 | 190 | |
| Val | Pro | Asp | Gly | Ile | Lys | Ser | Ala | Ser | Tyr | Lys | Tyr | Ser | Glu | Glu | Ala | 195 | 200 | 205 | |
| Asn | Asn | Leu | Ile | Glu | Glu | Cys | Glu | Gln | Ala | Glu | Arg | Leu | Gly | Ala | Val | 210 | 215 | 220 | |
| Asp | Glu | Ser | Leu | Ser | Glu | Glu | Thr | Gln | Lys | Ala | Val | Leu | Gln | Trp | Thr | 225 | 230 | 235 | 240 |
| Lys | His | Asp | Asp | Ser | Ser | Asp | Asn | Phe | Cys | Glu | Ala | Asp | Asp | Ile | Gln | 245 | 250 | 255 | |

5586

Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr
 260 265 270
 Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr
 275 280 285
 Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro
 290 295 300
 Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp
 305 310 315 320
 Leu Glu Gly Leu Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser
 325 330 335
 Gly Leu His Ala Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu
 340 345 350
 Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe
 355 360 365
 Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg
 370 375 380
 Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser
 385 390 395 400
 Lys Val Leu Pro Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly
 405 410 415
 Asn Lys Ile Gln Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu
 420 425 430
 His Glu Ile Lys Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe
 435 440 445
 Ala Gly Asp Lys Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu
 450 455 460
 His Phe Arg Asn Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys
 465 470 475 480
 Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu
 485 490 495
 Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly
 500 505 510
 Pro Ser Tyr Glu Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe
 515 520 525

5587

Asn Ala Phe Gly Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe
 530 535 540

Arg Asn Leu Leu Gln Asn Ile His
 545 550

<210> 6356

<211> 481

<212> PRT

<213> Homo sapiens

<400> 6356

Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly Pro Gly Thr Pro Ala
 1 5 10 15

Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu Glu Pro Ala Leu Ala
 20 25 30

Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met Val Asp Asn Leu Gln
 35 40 45

Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met Leu Ile Gly Thr Pro
 50 55 60

Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly Ser Ser Asn Phe Ala
 65 70 75 80

Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr Tyr Phe Asp Thr Glu
 85 90 95

Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp Val Thr Val Lys Tyr
 100 105 110

Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu Asp Leu Val Thr Ile
 115 120 125

Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn Ile Ala Thr Ile Phe
 130 135 140

Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys Trp Asn Gly Ile Leu
 145 150 155 160

Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser Ser Ser Leu Glu Thr
 165 170 175

Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile Pro Asn Val Phe Ser
 180 185 190

Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala Gly Ser Gly Thr Asn

5588

| 195 | | | | | 200 | | | | | 205 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Ser | Leu | Val | Leu | Gly | Gly | Ile | Glu | Pro | Ser | Leu | Tyr | Lys | Gly |
| 210 | | | | | | 215 | | | | | 220 | | | | |
| Asp | Ile | Trp | Tyr | Thr | Pro | Ile | Lys | Glu | Glu | Trp | Tyr | Tyr | Gln | Ile | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ile | Leu | Lys | Leu | Glu | Ile | Gly | Gly | Gln | Ser | Leu | Asn | Leu | Asp | Cys | Arg |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Glu | Tyr | Asn | Ala | Asp | Lys | Ala | Ile | Val | Asp | Ser | Gly | Thr | Thr | Leu | Leu |
| | | | 260 | | | | | 265 | | | | | | 270 | |
| Arg | Leu | Pro | Gln | Lys | Val | Phe | Asp | Ala | Val | Val | Glu | Ala | Val | Ala | Arg |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ala | Ser | Leu | Ile | Pro | Glu | Phe | Ser | Asp | Gly | Phe | Trp | Thr | Gly | Ser | Gln |
| 290 | | | | | | 295 | | | | | 300 | | | | |
| Leu | Ala | Cys | Trp | Thr | Asn | Ser | Glu | Thr | Pro | Trp | Ser | Tyr | Phe | Pro | Lys |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Ile | Ser | Ile | Tyr | Leu | Arg | Asp | Glu | Asn | Ser | Ser | Arg | Ser | Phe | Arg | Ile |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Thr | Ile | Leu | Pro | Gln | Leu | Tyr | Ile | Gln | Pro | Met | Met | Gly | Ala | Gly | Leu |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Asn | Tyr | Glu | Cys | Tyr | Arg | Phe | Gly | Ile | Ser | Pro | Ser | Thr | Asn | Ala | Leu |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Val | Ile | Gly | Ala | Thr | Val | Met | Glu | Gly | Phe | Tyr | Val | Ile | Phe | Asp | Arg |
| | | 370 | | | | 375 | | | | | 380 | | | | |
| Ala | Gln | Lys | Arg | Val | Gly | Phe | Ala | Ala | Ser | Pro | Cys | Ala | Glu | Ile | Ala |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Gly | Ala | Ala | Val | Ser | Glu | Ile | Ser | Gly | Pro | Phe | Ser | Thr | Glu | Asp | Val |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Ala | Ser | Asn | Cys | Val | Pro | Ala | Gln | Ser | Leu | Ser | Glu | Pro | Ile | Leu | Trp |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Ile | Val | Ser | Tyr | Ala | Leu | Met | Ser | Val | Cys | Gly | Ala | Ile | Leu | Leu | Val |
| | | 435 | | | | | 440 | | | | | 445 | | | |
| Leu | Ile | Val | Leu | Leu | Leu | Leu | Pro | Phe | Arg | Cys | Gln | Arg | Arg | Pro | Arg |
| | | 450 | | | | 455 | | | | | 460 | | | | |
| Asp | Pro | Glu | Val | Val | Asn | Asp | Glu | Ser | Ser | Leu | Val | Arg | His | Arg | Trp |

5589

465

470

475

480

Lys

<210> 6357

<211> 441

<212> PRT

<213> Homo sapiens

<400> 6357

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
 1 5 10 15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
 20 25 30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
 35 40 45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
 50 55 60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
 65 70 75 80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
 85 90 95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
 100 105 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
 115 120 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
 130 135 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
 145 150 155 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
 165 170 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
 180 185 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
 195 200 205

5590

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
 210 215 220
 Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
 225 230 235 240
 Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
 245 250 255
 Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
 260 265 270
 Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
 275 280 285
 Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
 290 295 300
 Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
 305 310 315 320
 Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
 325 330 335
 Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
 340 345 350
 Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
 355 360 365
 Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
 370 375 380
 Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
 385 390 395 400
 Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
 405 410 415
 Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
 420 425 430
 Gly Ala Pro Asp Gln Glu Phe Gly Phe
 435 440

<210> 6358

<211> 458

<212> PRT

5591

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6358

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Ser | Pro | Leu | Thr | Ala | Pro | Leu | Thr | Thr | Thr | Asn | Pro | Tyr | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Thr | Arg | Leu | Val | Cys | Pro | Thr | Leu | Gly | Asp | Ala | Glu | Pro | Gln | Pro | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Arg | Pro | Lys | His | Ser | Phe | Asn | Trp | Tyr | Cys | Gly | Xaa | Arg | Gly | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Cys | Leu | Leu | Gln | Leu | Ala | Pro | Ala | Ala | Gly | Arg | Ser | Cys | Asp | Ser | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Glu | Ser | Arg | Arg | Arg | Val | Leu | Val | Leu | Thr | Arg | Arg | Ala | Met | Thr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ala | Arg | Pro | Ser | Val | Pro | Ala | Ala | Leu | Pro | Leu | Leu | Gly | Glu | Leu | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Arg | Leu | Leu | Leu | Leu | Val | Leu | Leu | Cys | Leu | Pro | Ala | Val | Trp | Gly | Asp |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Cys | Gly | Leu | Pro | Pro | Asp | Val | Pro | Asn | Ala | Gln | Pro | Ala | Leu | Glu | Gly |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Arg | Thr | Ser | Phe | Pro | Glu | Asp | Thr | Val | Ile | Thr | Tyr | Lys | Cys | Glu | Glu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Phe | Val | Lys | Ile | Pro | Gly | Glu | Lys | Asp | Ser | Val | Ile | Cys | Leu | Lys |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Gly | Ser | Gln | Trp | Ser | Asp | Ile | Glu | Glu | Phe | Cys | Asn | Arg | Ser | Cys | Glu |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Val | Pro | Thr | Arg | Leu | Asn | Ser | Ala | Ser | Leu | Lys | Gln | Pro | Tyr | Ile | Thr |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Gln | Asn | Tyr | Phe | Pro | Val | Gly | Thr | Val | Val | Glu | Tyr | Glu | Cys | Arg | Pro |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Gly | Tyr | Arg | Arg | Glu | Pro | Ser | Leu | Ser | Pro | Lys | Leu | Thr | Cys | Leu | Gln |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Leu | Lys | Trp | Ser | Thr | Ala | Val | Glu | Phe | Cys | Lys | Lys | Lys | Ser | Cys |

5592

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 225 | | 230 | | 235 | | 240 | | | | | | | | | |
| Pro | Asn | Pro | Gly | Glu | Ile | Arg | Asn | Gly | Gln | Ile | Asp | Val | Pro | Gly | Gly |
| | | | 245 | | | | | 250 | | | | | 255 | | |
| Ile | Leu | Phe | Gly | Ala | Thr | Ile | Ser | Phe | Ser | Cys | Asn | Thr | Gly | Tyr | Lys |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Leu | Phe | Gly | Ser | Thr | Ser | Ser | Phe | Cys | Leu | Ile | Ser | Gly | Ser | Ser | Val |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Gln | Trp | Ser | Asp | Pro | Leu | Pro | Glu | Cys | Arg | Glu | Ile | Tyr | Cys | Pro | Ala |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Pro | Pro | Gln | Ile | Asp | Asn | Gly | Ile | Ile | Gln | Gly | Glu | Arg | Asp | His | Tyr |
| 305 | | | | | 310 | | | | 315 | | | | | | 320 |
| Gly | Tyr | Arg | Gln | Ser | Val | Thr | Tyr | Ala | Cys | Asn | Lys | Gly | Phe | Thr | Met |
| | | | 325 | | | | | 330 | | | | | 335 | | |
| Ile | Gly | Glu | His | Ser | Ile | Tyr | Cys | Thr | Val | Asn | Asn | Asp | Glu | Gly | Glu |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Trp | Ser | Gly | Pro | Pro | Pro | Glu | Cys | Arg | Gly | Lys | Ser | Leu | Thr | Ser | Lys |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Val | Pro | Pro | Thr | Val | Gln | Lys | Pro | Thr | Thr | Val | Asn | Val | Pro | Thr | Thr |
| | | 370 | | | | 375 | | | | | 380 | | | | |
| Glu | Val | Ser | Pro | Thr | Ser | Gln | Lys | Thr | Thr | Thr | Lys | Thr | Thr | Thr | Pro |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Asn | Ala | Gln | Ala | Thr | Arg | Ser | Thr | Pro | Val | Ser | Arg | Thr | Thr | Lys | His |
| | | | 405 | | | | | | 410 | | | | | 415 | |
| Phe | His | Glu | Thr | Thr | Pro | Asn | Lys | Gly | Ser | Gly | Thr | Thr | Ser | Gly | Thr |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Thr | Arg | Leu | Leu | Ser | Gly | His | Thr | Cys | Phe | Thr | Leu | Thr | Gly | Leu | Leu |
| | | 435 | | | | | 440 | | | | | 445 | | | |
| Gly | Thr | Leu | Val | Thr | Met | Gly | Leu | Leu | Thr | | | | | | |
| | | 450 | | | | 455 | | | | | | | | | |

<210> 6359

<211> 133

<212> PRT

<213> Homo sapiens

5593

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6359

Thr Asn His Ala Asn Val Asn Glu Gly Xaa Val Pro Xaa Xaa Met Leu
 1 5 10 15

Val Ala Asn Asp Gln Met Ala Leu Gly Ala Met Arg Ala Ile Thr Glu
 20 25 30

Ser Gly Leu Arg Val Gly Ala Asp Ile Ser Val Val Gly Tyr Asp Asp
 35 40 45

Thr Glu Asp Ser Ser Cys Tyr Ile Pro Pro Leu Thr Thr Ile Lys Gln
 50 55 60

Asp Phe Arg Leu Leu Gly Gln Thr Ser Val Asp Arg Leu Leu Gln Leu
 65 70 75 80

Ser Gln Gly Gln Ala Val Lys Gly Asn Gln Leu Leu Pro Val Ser Leu
 85 90 95

Val Lys Arg Lys Thr Thr Leu Ala Pro Asn Thr Gln Thr Ala Ser Pro
 100 105 110

Arg Ala Leu Ala Asp Ser Leu Met Gln Leu Ala Arg Gln Val Ser Arg
 115 120 125

Leu Glu Ser Gly Gln
 130

<210> 6360

<211> 332

<212> PRT

<213> Homo sapiens

<220>

5594

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6360

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

1

5

10

15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Ala Pro Ala

20

25

30

Ser Cys Pro Ser Arg Gln Glu Glu Trp Gly Leu Thr Ser Thr Ser Val

35

40

45

Leu Lys Arg Glu Ala Pro Ala Gly Arg Asp Pro Glu Glu Pro Gly Asp

50

55

60

Val Gly Ala Gly Asp Pro Asn Ser Asp Gln Gly Leu Pro Val Leu Met

65

70

75

80

Thr Gln Gly Thr Glu Asp Leu Lys Gly Pro Gly Gln Arg Cys Glu Asn

85

90

95

Glu Pro Leu Leu Asp Pro Val Gly Pro Glu Pro Leu Gly Pro Glu Ser

100

105

110

Gln Ser Gly Lys Gly Asp Met Val Glu Met Ala Thr Arg Phe Gly Ser

115

120

125

Thr Leu Gln Leu Asp Leu Glu Lys Gly Lys Glu Ser Leu Leu Glu Lys

130

135

140

Arg Leu Val Ala Glu Glu Glu Glu Asp Glu Glu Glu Val Glu Glu Asp

145

150

155

160

Gly Pro Ser Ser Cys Ser Glu Asp Asp Tyr Ser Glu Leu Leu Gln Glu

165

170

175

Ile Thr Asp Asn Leu Thr Lys Lys Glu Ile Gln Ile Glu Lys Ile His

180

185

190

Leu Asp Thr Ser Ser Phe Xaa Glu Glu Leu Pro Gly Glu Lys Asp Leu

195

200

205

Ala His Val Val Glu Ile Tyr Asp Phe Glu Pro Ala Leu Lys Thr Glu

210

215

220

5595

Asp Leu Leu Ala Thr Phe Ser Glu Phe Gln Glu Lys Gly Phe Arg Ile
225 230 235 240

Gln Trp Val Asp Asp Thr His Ala Leu Gly Ile Phe Pro Cys Xaa Ala
245 250 255

Ser Ala Ala Glu Ala Leu Thr Arg Glu Phe Ser Val Leu Lys Ile Arg
260 265 270

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Thr | Gln | Gly | Thr | Lys | Gln | Ser | Lys | Leu | Lys | Ala | Leu | Gln | Arg |
| | | 275 | | | | | 280 | | | | | 285 | | | |

Pro Lys Leu Leu Arg Leu Val Lys Glu Arg Pro Gln Thr Asn Ala Thr
290 295 300

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Arg | Arg | Leu | Val | Ala | Arg | Ala | Leu | Gly | Leu | Gln | His | Lys | Lys |
| 305 | | | | 310 | | | | | 315 | | | | | | 320 |

Lys Glu Arg Pro Ala Val Arg Gly Pro Leu Pro Pro
325 330

<210> 6361

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6361

Pro Gly Arg Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp
1 5 10 15

Asp Leu Lys Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met
20 25 30

Gly Tyr Pro Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu
35 40 45

Arg His Leu Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly
50 55 60

Glu Leu Gly Phe Ile Gln Trp Pro Cys Arg Asp Thr Ser Asp Ala Asp
65 70 75 80

Gln Gly Thr Ser Tyr Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly

5596

| | | | | | | |
|---|-----|--|-----|--|-----|-----|
| | 85 | | 90 | | 95 | |
| Leu Ala Gln Phe Phe Thr Cys Asp Trp Val Ala Pro Ile Asp Lys Leu | | | | | | |
| | 100 | | 105 | | 110 | |
| Thr Asp Glu Tyr Pro Met Val Leu Ser Thr Val Arg Glu Val Gly His | | | | | | |
| | 115 | | 120 | | 125 | |
| Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala Xaa Leu Ala Ala Leu | | | | | | |
| | 130 | | 135 | | 140 | |
| Ala Asp Glu Pro Gly Tyr Ala Gln Ile Asn Thr Glu Asp Ala Lys Arg | | | | | | |
| | 145 | | 150 | | 155 | 160 |
| Leu Gly Ile Glu Asp Glu Ala Leu Val Trp Val His Ser Arg Lys Gly | | | | | | |
| | 165 | | 170 | | 175 | |
| Lys Ile Ile Thr Arg Ala Gln Val Ser Asp Arg Pro Asn Lys Gly Ala | | | | | | |
| | 180 | | 185 | | 190 | |
| Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala Cys Asn Glu Leu Val | | | | | | |
| | 195 | | 200 | | 205 | |
| Thr Glu Asn Leu Ser Pro Ile Thr Lys Thr Pro Glu Tyr Lys Tyr Cys | | | | | | |
| | 210 | | 215 | | 220 | |
| Ala Val Arg Val Glu Pro Ile Ala Asp Gln Arg Ala Ala Glu Gln Tyr | | | | | | |
| | 225 | | 230 | | 235 | 240 |
| Val Ile Asp Glu Tyr Asn Lys Leu Lys Thr Arg Leu Arg Glu Ala Ala | | | | | | |
| | 245 | | 250 | | 255 | |
| Leu Ala | | | | | | |

<210> 6362

<211> 38

<212> PRT

<213> Homo sapiens

<400> 6362

| |
|---|
| Phe Cys Ile Phe Leu Val Glu Thr Gly Phe Leu His Val Gly Gln Gly |
| 1 5 10 15 |

| |
|---|
| Ser Pro Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala Ser Ala Ser Gln |
| 20 25 30 |

| |
|-------------------------|
| Val Leu Gly Leu Gln Ala |
| 35 |

5597

<210> 6363

<211> 232

<212> PRT

<213> Homo sapiens

<400> 6363

Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu
 1 5 10 15

Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly
 20 25 30

Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly
 35 40 45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser
 50 55 60

His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly
 65 70 75 80

Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys
 85 90 95

Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro
 100 105 110

Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His
 115 120 125

Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu
 130 135 140

Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly
 145 150 155 160

Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr
 165 170 175

Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser
 180 185 190

Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr
 195 200 205

Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys
 210 215 220

5598

Ala Glu Ala His His Ala Glu Leu
 225 230

<210> 6364

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6364

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Lys | Pro | Gln | Thr | Arg | Arg | Lys | Tyr | Leu | Ser | Asn | Thr | Ser | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Leu | Val | Ser | Lys | Ile | Tyr | Gln | Glu | Leu | Leu | Xaa | His | Asn | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Ile | Leu | Lys | Xaa | Ser | Lys | Lys | Ser | Xaa | Xaa | Met | Tyr | His | Gln |
| | | | 35 | | | | 40 | | | | | 45 | | | |

Arg

<210> 6365

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6365

5599

Glu Phe Gly Thr Ser Gly Tyr Ile Phe Leu His Leu Gln Leu Pro His
 1 5 10 15

Gly Val Leu Ile Arg Leu Lys Ser Asn Asn Gly Tyr Lys Asn Thr Leu
 20 25 30

Lys Ser Arg His Gly Phe Leu Leu Thr Ala Met Arg Glu Phe Leu Glu
 35 40 45

Leu Asp Leu Asp Gly Pro Lys Gln Leu Glu Asn Trp Thr Lys Asp Ile
 50 55 60

Lys Lys Lys Leu Phe Ser Thr Ile Gly Gln
 65 70

<210> 6366

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6366

Gly Arg Gly Lys Ser Gly Pro Gly Leu Pro Gln Ser Cys Leu Leu Cys
 1 5 10 15

Ala Val Asn Gly Phe Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly
 20 25 30

Gly Val Arg Gln Ala Tyr Lys Ala Tyr Leu Lys Trp Met Ala Glu Gly
 35 40 45

Gly Lys Asp Gln Gln Leu Pro Gly Leu Asp Leu Thr His Glu Gln Leu
 50 55 60

Phe Phe Ile Asn Tyr Ala Gln Val Trp Cys Gly Ser Tyr Arg Pro Glu
 65 70 75 80

Phe Ala Ile Gln Ser Ile Lys Thr Asp Val His Ser Pro Leu Lys Tyr
 85 90 95

Arg Val Leu Gly Ser Leu Gln Asn Leu Ala Ala Phe Ala Asp Thr Phe
 100 105 110

His Cys Ala Arg Gly Thr Pro Met His Pro Lys Glu Arg Cys Arg Val
 115 120 125

Trp

5600

<210> 6367

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6367

Pro Val Ala Val Gly Arg Val Arg Val Thr Ala Glu Gly Arg Xaa Met
 1 5 10 15

Val Leu Gln Thr Thr Lys Gly Leu Arg Leu Leu Phe Asp Gly Asp Ala
 20 25 30

His Leu Leu Met Ser Ile Pro Ser Pro Phe Arg Gly Arg Leu Cys Gly
 35 40 45

Leu Cys Gly Asn Phe Asn Gly Asn Trp Ser Asp Asp Phe Val Leu Pro
 50 55 60

Asn Gly Ser Ala Ala Ser Ser Val Glu Thr Phe Gly Ala Ala Trp Arg
 65 70 75 80

Xaa Pro Gly Ser Ser Lys Gly Cys Gly Glu Gly Cys Gly Pro Gln Gly
 85 90 95

Cys Pro Val Cys Leu Ala Glu Glu Thr Ala Pro Tyr Glu Ser Asn Glu
 100 105 110

Ala Cys Gly Gln Leu Arg Asn Pro Gln Gly Pro Phe Ala Thr Cys Gln
 115 120 125

Ala Val Leu Ser Pro Ser Glu Tyr Phe Arg Gln Cys Val Tyr Asp Leu
 130 135 140

Cys Ala Gln Lys Gly Asp Lys Ala Phe Leu Cys Arg Ser Leu Ala Ala
 145 150 155 160

Tyr Thr Ala Ala Cys Gln Ala Ala Gly Val Ala Val Lys Pro Trp Arg
 165 170 175

Thr Asp Ser Phe Cys Pro Leu His Cys Pro Ala His Ser His Tyr Ser

5601

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| | 180 | | 185 | | 190 | | | | | | | | | | | | | | |
| Ile | Cys | Thr | Arg | Thr | Cys | Gln | Gly | Ser | Cys | Ala | Ala | Leu | Ser | Gly | Leu | | | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | | | |
| Thr | Gly | Cys | Thr | Thr | Arg | Cys | Phe | Glu | Gly | Cys | Glu | Cys | Asp | Asp | Arg | | | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | | | |
| Phe | Leu | Leu | Ser | Gln | Gly | Val | Cys | Ile | Pro | Val | Gln | Asp | Cys | Gly | Cys | | | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | | | |
| Thr | His | Asn | Gly | Arg | Tyr | Leu | Pro | Val | Asn | Ser | Ser | Leu | Leu | Thr | Ser | | | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | | | |
| Asp | Cys | Ser | Glu | Arg | Cys | Ser | Cys | Ser | Ser | Ser | Ser | Gly | Leu | Thr | Cys | | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | | |
| Gln | Ala | Ala | Gly | Cys | Pro | Pro | Gly | Arg | Val | Cys | Glu | Val | Lys | Ala | Glu | | | | |
| | 275 | | | | | | 280 | | | | | 285 | | | | | | | |
| Ala | Arg | Asn | Cys | Trp | Ala | Thr | Arg | Gly | Leu | Cys | Val | Leu | Ser | Val | Gly | | | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | | | |
| Ala | Asn | Leu | Thr | Thr | Phe | Asp | Gly | Ala | Arg | Gly | Ala | Thr | Thr | Ser | Pro | | | | |
| 305 | | | | | 310 | | | | 315 | | | | | | 320 | | | | |
| Gly | Val | Tyr | Glu | Leu | Ser | Ser | Arg | Cys | Pro | Gly | Leu | Gln | Asn | Thr | Ile | | | | |
| | | | | 325 | | | | | 330 | | | | 335 | | | | | | |
| Pro | Trp | Tyr | Arg | Val | Val | Ala | Glu | Val | Gln | Ile | Cys | His | Gly | Lys | Thr | | | | |
| | | | 340 | | | | | 345 | | | | 350 | | | | | | | |
| Glu | Ala | Val | Gly | Gln | Val | His | Ile | Phe | Phe | Gln | Asp | Gly | Met | Val | Thr | | | | |
| | 355 | | | | | | 360 | | | | | 365 | | | | | | | |
| Leu | Thr | Pro | Asn | Lys | Gly | Val | Trp | Val | Asn | Gly | Leu | Arg | Val | Asp | Leu | | | | |
| | 370 | | | | | 375 | | | | | 380 | | | | | | | | |
| Pro | Ala | Glu | Lys | Leu | Ala | Ser | Val | Ser | Val | Ser | Arg | Thr | Pro | Asp | Gly | | | | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | | | | |
| Ser | Leu | Leu | Val | Arg | Gln | Lys | Ala | Gly | Val | Gln | Val | Trp | Leu | Gly | Ala | | | | |
| | | | | 405 | | | | | 410 | | | | | 415 | | | | | |
| Asn | Gly | Lys | Val | Ala | Val | Ile | Val | Ser | Asn | Asp | His | Ala | Gly | Lys | Leu | | | | |
| | | | 420 | | | | | 425 | | | | | 430 | | | | | | |
| Cys | Gly | Ala | Cys | Gly | Asn | Phe | Asp | Gly | Asp | Gln | Thr | Asn | Asp | Trp | His | | | | |
| | 435 | | | | | 440 | | | | | | 445 | | | | | | | |
| Asp | Ser | Gln | Glu | Lys | Pro | Ala | Met | Glu | Lys | Trp | Arg | Ala | Gln | Asp | Phe | | | | |

5602

450

455

460

Ser Pro Cys Tyr Gly
465

<210> 6368

<211> 705

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6368

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Cys Asn Leu
20 25 30

Glu Asp Leu Asp Asn Trp Thr Ala Leu Ile Ser Ala Ser Lys Glu Gly
35 40 45

His Val His Ile Val Glu Glu Leu Leu Lys Cys Gly Val Asn Leu Glu
50 55 60

His Arg Asp Met Gly Gly Trp Thr Ala Leu Met Trp Ala Cys Tyr Lys
65 70 75 80

Gly Arg Thr Asp Val Val Glu Leu Leu Leu Ser His Gly Ala Asn Pro
85 90 95

Ser Val Thr Gly Leu Tyr Ser Val Tyr Pro Ile Ile Trp Ala Ala Gly
100 105 110

Arg Gly His Ala Asp Ile Val His Leu Leu Leu Gln Asn Gly Ala Lys
115 120 125

Val Asn Cys Ser Asp Lys Tyr Gly Thr Thr Pro Leu Val Trp Ala Ala
130 135 140

Arg Lys Gly His Leu Glu Cys Val Lys His Leu Leu Ala Met Gly Ala

5603

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 |
| Asp Val Asp Gln Glu Gly Ala Asn Ser Met Thr Ala Leu Ile Val Ala | | | | | | |
| | 165 | | 170 | | 175 | |
| Val Lys Gly Gly Tyr Thr Gln Ser Val Lys Glu Ile Leu Lys Arg Asn | | | | | | |
| | 180 | | 185 | | 190 | |
| Pro Asn Val Asn Leu Thr Asp Lys Asp Gly Asn Thr Ala Leu Met Ile | | | | | | |
| | 195 | | 200 | | 205 | |
| Ala Ser Lys Glu Gly His Thr Glu Ile Val Gln Asp Leu Leu Asp Ala | | | | | | |
| | 210 | | 215 | | 220 | |
| Gly Thr Tyr Val Asn Ile Pro Asp Arg Ser Gly Asp Thr Val Leu Ile | | | | | | |
| 225 | | 230 | | 235 | | 240 |
| Gly Ala Val Xaa Gly Gly His Val Glu Ile Val Arg Ala Leu Leu Gln | | | | | | |
| | 245 | | 250 | | 255 | |
| Lys Tyr Ala Asp Ile Asp Ile Arg Gly Gln Asp Asn Lys Thr Ala Leu | | | | | | |
| | 260 | | 265 | | 270 | |
| Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr Met Val Arg Asp Ile Leu | | | | | | |
| | 275 | | 280 | | 285 | |
| Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr Lys Asp Gly Glu Thr Pro | | | | | | |
| | 290 | | 295 | | 300 | |
| Leu Ile Lys Ala Thr Lys Met Arg Asn Ile Glu Val Val Glu Leu Leu | | | | | | |
| 305 | | 310 | | 315 | | 320 |
| Leu Asp Lys Gly Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr | | | | | | |
| | 325 | | 330 | | 335 | |
| Xaa Leu His Ile Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu | | | | | | |
| | 340 | | 345 | | 350 | |
| Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys | | | | | | |
| | 355 | | 360 | | 365 | |
| Ala Gly Glu Thr Pro Tyr Asn Ile Asp Cys Ser His Gln Lys Ser Ile | | | | | | |
| | 370 | | 375 | | 380 | |
| Leu Thr Gln Ile Phe Gly Ala Arg His Leu Ser Pro Thr Glu Thr Asp | | | | | | |
| 385 | | 390 | | 395 | | 400 |
| Gly Asp Met Leu Gly Tyr Asp Leu Tyr Ser Ser Ala Leu Ala Asp Ile | | | | | | |
| | 405 | | 410 | | 415 | |
| Leu Ser Glu Pro Thr Met Gln Pro Pro Ile Cys Val Gly Leu Tyr Ala | | | | | | |

5604

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 420 | | 425 | | 430 | | | | | | | | | | | | |
| Gln | Trp | Gly | Ser | Gly | Lys | Ser | Phe | Leu | Leu | Lys | Lys | Leu | Glu | Asp | Glu | | |
| | 435 | | | | | | 440 | | | | | 445 | | | | | |
| Met | Lys | Thr | Phe | Ala | Gly | Gln | Gln | Ile | Glu | Pro | Leu | Phe | Gln | Phe | Ser | | |
| | 450 | | | | | 455 | | | | | 460 | | | | | | |
| Trp | Leu | Ile | Val | Phe | Leu | Thr | Leu | Leu | Leu | Cys | Gly | Gly | Leu | Gly | Leu | | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | | |
| Leu | Phe | Ala | Phe | Thr | Val | His | Pro | Asn | Leu | Gly | Ile | Ala | Val | Ser | Leu | | |
| | | | | 485 | | | | | 490 | | | | | 495 | | | |
| Ser | Phe | Leu | Ala | Leu | Leu | Tyr | Ile | Phe | Phe | Ile | Val | Ile | Tyr | Phe | Gly | | |
| | | | 500 | | | | | 505 | | | | | 510 | | | | |
| Gly | Arg | Arg | Glu | Gly | Glu | Ser | Trp | Asn | Trp | Ala | Trp | Val | Leu | Ser | Thr | | |
| | 515 | | | | | | 520 | | | | | 525 | | | | | |
| Arg | Leu | Ala | Arg | His | Ile | Gly | Tyr | Leu | Glu | Leu | Leu | Leu | Lys | Leu | Met | | |
| | 530 | | | | | 535 | | | | | 540 | | | | | | |
| Phe | Val | Asn | Pro | Pro | Glu | Leu | Pro | Glu | Gln | Thr | Thr | Lys | Ala | Leu | Pro | | |
| 545 | | | | | 550 | | | | 555 | | | | | | 560 | | |
| Val | Arg | Phe | Leu | Phe | Thr | Asp | Tyr | Asn | Arg | Leu | Ser | Ser | Val | Gly | Gly | | |
| | | | | 565 | | | | | 570 | | | | | 575 | | | |
| Glu | Thr | Ser | Leu | Ala | Glu | Met | Ile | Ala | Thr | Leu | Ser | Asp | Ala | Cys | Glu | | |
| | | | 580 | | | | | 585 | | | | | 590 | | | | |
| Arg | Glu | Phe | Gly | Phe | Leu | Ala | Thr | Arg | Leu | Phe | Arg | Val | Phe | Lys | Thr | | |
| | 595 | | | | | | 600 | | | | | 605 | | | | | |
| Glu | Asp | Thr | Gln | Gly | Lys | Lys | Lys | Lys | Lys | Asn | Ser | Arg | Gly | Gly | Pro | | |
| | 610 | | | | | 615 | | | | 620 | | | | | | | |
| Val | Pro | Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | | |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 | | |
| Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | | |
| | | | | 645 | | | | | 650 | | | | | 655 | | | |
| Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | | |
| | | | 660 | | | | | 665 | | | | | 670 | | | | |
| Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu | | |
| | 675 | | | | | | 680 | | | | | 685 | | | | | |
| Trp | Gln | Ile | Val | Ser | Val | Asn | Ile | Leu | Leu | Lys | Phe | Ala | Leu | Asn | Phe | | |

5605

690

695

700

Cys

705

<210> 6369

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (259)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

5606

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6369

Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15

Pro Arg Val Arg Pro Ser Ser Trp Phe Ala His Gly His Pro Leu Tyr
 20 25 30

Thr Arg Leu Pro Pro Ser Ala Leu Gln Val Leu Ser Ala Gln Gly Thr
 35 40 45

Gln Ala Leu Gln Ala Ala Gln Arg Ser Ala Gln Trp Ala Ile Asn Arg
 50 55 60

Val Ala Met Glu Ile Gln His Arg Ser His Glu Cys Arg Gly Ser Gly
 65 70 75 80

Arg Pro Arg Pro Gln Ala Leu Leu Gln Asp Pro Pro Glu Pro Gly Pro
 85 90 95

Cys Gly Glu Arg Arg Pro Ser Thr Ala Asn Val Thr Arg Ala His Gly
 100 105 110

Arg Ile Val Gly Gly Ser Ala Ala Pro Pro Gly Ala Trp Pro Trp Leu
 115 120 125

Val Arg Leu Gln Leu Gly Gly Gln Pro Leu Cys Gly Gly Val Leu Val
 130 135 140

Ala Ala Ser Trp Val Leu Thr Ala Ala His Cys Phe Val Gly Ala Pro
 145 150 155 160

Asn Glu Leu Leu Trp Thr Val Thr Leu Ala Glu Gly Ser Arg Gly Glu
 165 170 175

Gln Ala Glu Glu Val Pro Val Asn Arg Ile Leu Pro His Pro Lys Phe
 180 185 190

Asp Pro Arg Thr Phe His Asn Asp Leu Ala Leu Val Gln Leu Trp Thr
 195 200 205

Pro Val Thr Arg Gly Asp Arg Arg Ala Pro Cys Ala Cys Pro Gly Ala
 210 215 220

Pro Gly Ala Pro Cys Arg Asn Arg Leu Xaa His Arg Gly Leu Gly Arg
 225 230 235 240

5607

Pro Xaa Arg Arg Arg Ala Xaa Gly Xaa Ser Xaa Glu Arg Gly Pro Cys
 245 250 255

Ser Pro Xaa Gln His Arg His Leu Pro Lys Ser Pro Gly Ala Arg Xaa
 260 265 270

Ala Pro Gln His His Ala Leu Arg Arg Xaa Leu Ala Ala Gly Val Asp
 275 280 285

Ser Cys Gln Xaa Asp Ser
 290

<210> 6370

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6370

Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Thr Arg Arg
 1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
 20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu
 35 40 45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe
 50 55 60

Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met
 65 70 75 80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe
 85 90 95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys
 100 105 110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile
 115 120 125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala

5608

130 135 140
 Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile
 145 150 155 160
 Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln
 165 170 175
 Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro
 180 185 190
 Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly
 195 200 205
 Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser
 210 215 220
 Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu
 225 230 235 240
 Val Phe Ile Ile Leu Val Val Ser Cys Ser Gln Ile Ser Ile Val Met
 245 250 255
 Val Tyr Phe Gln Leu Cys Ala Glu Asp Tyr Arg Trp Trp Trp Arg Asn
 260 265 270
 Phe Leu Val Ser Gly Gly Ser Ala Phe Tyr Val Leu Val Tyr Ala Ile
 275 280 285
 Phe Tyr Phe Val Asn Lys
 290

<210> 6371

<211> 944

<212> PRT

<213> Homo sapiens

<400> 6371

Ser Lys Lys Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met
 1 5 10 15
 Ser Phe Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro
 20 25 30
 Ser Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
 35 40 45
 Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val
 50 55 60

5609

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Tyr | Asp | Leu | Leu | Ile | His | Ala | Asn | Leu | Thr | Thr | Leu | Thr | Phe | Trp | 65 | 70 | 75 | 80 |
| Gly | Thr | Thr | Lys | Val | Glu | Ile | Thr | Ala | Ser | Gln | Pro | Thr | Ser | Thr | Ile | 85 | 90 | 95 | |
| Ile | Leu | His | Ser | His | His | Leu | Gln | Ile | Ser | Arg | Ala | Thr | Leu | Arg | Lys | 100 | 105 | 110 | |
| Gly | Ala | Gly | Glu | Arg | Leu | Ser | Glu | Glu | Pro | Leu | Gln | Val | Leu | Glu | His | 115 | 120 | 125 | |
| Pro | Pro | Gln | Glu | Gln | Ile | Ala | Leu | Leu | Ala | Pro | Glu | Pro | Leu | Leu | Val | 130 | 135 | 140 | |
| Gly | Leu | Pro | Tyr | Thr | Val | Val | Ile | His | Tyr | Ala | Gly | Asn | Leu | Ser | Glu | 145 | 150 | 155 | 160 |
| Thr | Phe | His | Gly | Phe | Tyr | Lys | Ser | Thr | Tyr | Arg | Thr | Lys | Glu | Gly | Glu | 165 | 170 | 175 | |
| Leu | Arg | Ile | Leu | Ala | Ser | Thr | Gln | Phe | Glu | Pro | Thr | Ala | Ala | Arg | Met | 180 | 185 | 190 | |
| Ala | Phe | Pro | Cys | Phe | Asp | Glu | Pro | Ala | Phe | Lys | Ala | Ser | Phe | Ser | Ile | 195 | 200 | 205 | |
| Lys | Ile | Arg | Arg | Glu | Pro | Arg | His | Leu | Ala | Ile | Ser | Asn | Met | Pro | Leu | 210 | 215 | 220 | |
| Val | Lys | Ser | Val | Thr | Val | Ala | Glu | Gly | Leu | Ile | Glu | Asp | His | Phe | Asp | 225 | 230 | 235 | 240 |
| Val | Thr | Val | Lys | Met | Ser | Thr | Tyr | Leu | Val | Ala | Phe | Ile | Ile | Ser | Asp | 245 | 250 | 255 | |
| Phe | Glu | Ser | Val | Ser | Lys | Ile | Thr | Lys | Ser | Gly | Val | Lys | Val | Ser | Val | 260 | 265 | 270 | |
| Tyr | Ala | Val | Pro | Asp | Lys | Met | Asn | Gln | Ala | Asp | Tyr | Ala | Leu | Asp | Ala | 275 | 280 | 285 | |
| Ala | Val | Thr | Leu | Leu | Glu | Phe | Tyr | Glu | Asp | Tyr | Phe | Ser | Ile | Pro | Tyr | 290 | 295 | 300 | |
| Pro | Leu | Pro | Lys | Gln | Asp | Leu | Ala | Ala | Ile | Pro | Asp | Phe | Gln | Ser | Gly | 305 | 310 | 315 | 320 |
| Ala | Met | Glu | Asn | Trp | Gly | Leu | Thr | Thr | Tyr | Arg | Glu | Ser | Ala | Leu | Leu | 325 | 330 | 335 | |

5611

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Tyr | Ile | Val | His | Tyr | Glu | Asp | Asp | Gly | Trp | Asp | Ser | Leu | Thr | 610 | 615 | 620 |
| Gly | Leu | Leu | Lys | Gly | Thr | His | Thr | Ala | Val | Ser | Ser | Asn | Asp | Arg | Ala | 625 | 630 | 635 |
| Ser | Leu | Ile | Asn | Asn | Ala | Phe | Gln | Leu | Val | Ser | Ile | Gly | Lys | Leu | Ser | 645 | 650 | 655 |
| Ile | Glu | Lys | Ala | Leu | Asp | Leu | Ser | Leu | Tyr | Leu | Lys | His | Glu | Thr | Glu | 660 | 665 | 670 |
| Ile | Met | Pro | Val | Phe | Gln | Gly | Leu | Asn | Glu | Leu | Ile | Pro | Met | Tyr | Lys | 675 | 680 | 685 |
| Leu | Met | Glu | Lys | Arg | Asp | Met | Asn | Glu | Val | Glu | Thr | Gln | Phe | Lys | Ala | 690 | 695 | 700 |
| Phe | Leu | Ile | Arg | Leu | Leu | Arg | Asp | Leu | Ile | Asp | Lys | Gln | Thr | Trp | Thr | 705 | 710 | 715 |
| Asp | Glu | Gly | Ser | Val | Ser | Glu | Arg | Met | Leu | Arg | Ser | Glu | Leu | Leu | Leu | 725 | 730 | 735 |
| Leu | Ala | Cys | Val | His | Asn | Tyr | Gln | Pro | Cys | Val | Gln | Arg | Ala | Glu | Gly | 740 | 745 | 750 |
| Tyr | Phe | Arg | Lys | Trp | Lys | Glu | Ser | Asn | Gly | Asn | Leu | Ser | Leu | Pro | Val | 755 | 760 | 765 |
| Asp | Val | Thr | Leu | Ala | Val | Phe | Ala | Val | Gly | Ala | Gln | Ser | Thr | Glu | Gly | 770 | 775 | 780 |
| Trp | Asp | Phe | Leu | Tyr | Ser | Lys | Tyr | Gln | Phe | Ser | Leu | Ser | Ser | Thr | Glu | 785 | 790 | 795 |
| Lys | Ser | Gln | Ile | Glu | Phe | Ala | Leu | Cys | Arg | Thr | Gln | Asn | Lys | Glu | Lys | 805 | 810 | 815 |
| Leu | Gln | Trp | Leu | Leu | Asp | Glu | Ser | Phe | Lys | Gly | Asp | Lys | Ile | Lys | Thr | 820 | 825 | 830 |
| Gln | Glu | Phe | Pro | Gln | Ile | Leu | Thr | Leu | Ile | Gly | Arg | Asn | Pro | Val | Gly | 835 | 840 | 845 |
| Tyr | Pro | Leu | Ala | Trp | Gln | Phe | Leu | Arg | Lys | Asn | Trp | Asn | Lys | Leu | Val | 850 | 855 | 860 |
| Gln | Lys | Phe | Glu | Leu | Gly | Ser | Ser | Ser | Ile | Ala | His | Met | Val | Met | Gly | 865 | 870 | 875 |
| | | | | | | | | | | | | | | | | | | |

5612

Thr Thr Asn Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly
 885 890 895

Phe Phe Ser Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln
 900 905 910

Gln Thr Ile Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn
 915 920 925

Phe Asp Lys Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 6372

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6372

Val Arg Asn Gly Ser Phe Cys Ser Pro Gly Ser Glu Pro Pro Gly Ala
 1 5 10 15

Ala Arg Gly Leu Ala Ala Pro Arg Pro Arg Cys Pro Pro Gly Val Pro
 20 25 30

Leu Leu Arg Ala Pro Ala Ala Gly Cys Gln Leu Phe Gly Ala Pro Ser
 35 40 45

Arg Thr Gln Arg Arg Glu Arg Ala Arg Asp Lys Leu Glu Leu Arg Pro
 50 55 60

Pro Arg Pro Ser Pro Ala Pro Leu Pro Leu Pro Pro Arg Gly Arg Ala
 65 70 75 80

Pro Thr Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala
 85 90 95

Ser His Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln
 100 105 110

Pro Asp Phe Ser Tyr Lys Arg Ser Asn Cys Lys Pro Ile Pro Xaa Asn

5613

| | | | | |
|---|--|-----|--|-----|
| 115 | | 120 | | 125 |
| Leu Gln Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn | | | | |
| 130 | | 135 | | 140 |
| Leu Leu Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala | | | | |
| 145 | | 150 | | 155 |
| | | | | 160 |
| Trp Ile Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe | | | | |
| | | 165 | | 170 |
| | | | | 175 |
| Leu Cys Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr | | | | |
| | | 180 | | 185 |
| | | | | 190 |
| Ile Gln Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala | | | | |
| | | 195 | | 200 |
| | | | | 205 |
| Pro Val Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys | | | | |
| | | 210 | | 215 |
| | | | | 220 |
| Asp Arg Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser | | | | |
| | | 225 | | 230 |
| | | | | 235 |
| Asp His Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala | | | | |
| | | 245 | | 250 |
| | | | | 255 |
| Cys Lys Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys | | | | |
| | | 260 | | 265 |
| | | | | 270 |
| Lys Asn Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile | | | | |
| | | 275 | | 280 |
| | | | | 285 |
| Asn Arg Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr | | | | |
| | | 290 | | 295 |
| | | | | 300 |
| Lys Leu Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp | | | | |
| | | 305 | | 310 |
| | | | | 315 |
| Leu Lys Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn | | | | |
| | | 325 | | 330 |
| | | | | 335 |
| Ala Pro Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile | | | | |
| | | 340 | | 345 |
| | | | | 350 |
| Thr Ser Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile | | | | |
| | | 355 | | 360 |
| | | | | 365 |
| Ser Arg Ser Ile Arg Lys Leu Gln Cys | | | | |
| | | 370 | | 375 |

5614

<210> 6373

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6373

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Pro | Arg | Leu | Pro | Ala | Leu | Pro | Pro | Arg | Leu | Leu | Ser | Pro | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Thr | Met | Ser | Ala | Ser | Ala | Val | Phe | Ile | Leu | Asp | Val | Lys | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Leu | Ile | Ser | Arg | Asn | Tyr | Lys | Gly | Asp | Val | Ala | Met | Ser | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | His | Phe | Met | Pro | Leu | Leu | Val | Gln | Arg | Glu | Glu | Glu | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Pro | Leu | Leu | Ser | His | Gly | Gln | Val | His | Phe | Leu | Trp | Ile | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Asn | Leu | Tyr | Leu | Val | Ala | Thr | Thr | Ser | Lys | Asn | Ala | Asn | Ala |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Val | Tyr | Ser | Phe | Leu | Tyr | Lys | Thr | Ile | Glu | Val | Phe | Cys | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Lys | Glu | Leu | Glu | Glu | Glu | Ser | Ile | Arg | Asp | Asn | Phe | Val | Ile |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Tyr | Glu | Leu | Leu | Asp | Glu | Leu | Met | Asp | Phe | Gly | Phe | Pro | Gln | Xaa |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ser | Lys | Ile | Leu | Gln | Glu | Tyr | Ile | Thr | Gln | Gln | Ser | Asn | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Thr | Gly | Lys | Ser | Arg | Val | Pro | Pro | Thr | Val | Thr | Asn | Ala | Val |
| | | | 165 | | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Arg | Ser | Glu | Gly | Ile | Lys | Tyr | Lys | Lys | Asn | Glu | Val | Phe | Ile |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5615

| | | |
|---|-----|-----|
| 180 | 185 | 190 |
| Asp Val Ile Glu Ser Val Asn Leu Leu Val Asn Ala Asn Gly Ser Val | | |
| 195 | 200 | 205 |
| Leu Leu Ser Glu Ile Val Gly Thr Ile Lys Leu Lys Val Phe Leu Ser | | |
| 210 | 215 | 220 |
| Gly Met Pro Glu Leu Arg Leu Gly Leu Asn Asp Arg Val Leu Phe Glu | | |
| 225 | 230 | 235 |
| Leu Thr Gly Arg Ser Lys Asn Lys Ser Val Glu Leu Glu Asp Val Lys | | |
| 245 | 250 | 255 |
| Phe His Gln Cys Val Arg Leu Ser Arg Phe Asp Asn Asp Arg Thr Ile | | |
| 260 | 265 | 270 |
| Ser Phe Ile Pro Pro Asp Gly Asp Phe Glu Leu Met Ser Tyr Arg Leu | | |
| 275 | 280 | 285 |
| Ser Thr Gln Val Lys Pro Leu Ile Trp Ile Glu Ser Val Ile Glu Lys | | |
| 290 | 295 | 300 |
| Phe Ser His Ser Arg Val Glu Ile Met Val Lys Ala Lys Gly Gln Phe | | |
| 305 | 310 | 315 |
| Lys Lys Gln Ser Val Ala Asn Gly Val Glu Ile Ser Val Pro Val Pro | | |
| 325 | 330 | 335 |
| Ser Asp Ala Asp Ser Pro Arg Phe Lys Thr Ser Val Gly Ser Ala Lys | | |
| 340 | 345 | 350 |
| Tyr Val Pro Glu Arg Asn Val Val Ile Trp Ser Ile Lys Ser Phe Pro | | |
| 355 | 360 | 365 |
| Gly Gly Lys Glu Tyr Leu Met Arg Ala His Phe Gly Leu Pro Ser Val | | |
| 370 | 375 | 380 |
| Glu Lys Glu Glu Val Glu Gly Arg Pro Pro Ile Gly Val Lys Phe Glu | | |
| 385 | 390 | 395 |
| Ile Pro Tyr Phe Thr Val Ser Gly Ile Gln Val Arg Tyr Met Lys Ile | | |
| 405 | 410 | 415 |
| Ile Glu Lys Ser Gly Tyr Gln Ala Leu Pro Trp Val Arg Tyr Ile Thr | | |
| 420 | 425 | 430 |
| Gln Ser Gly Asp Tyr Gln Leu Arg Thr Ser | | |
| 435 | 440 | |

5617

Pro Pro Gly Glu Leu Gly Pro Asp Gly Pro Asp Gly Pro Glu Glu Lys
 245 250 255
 Gly Arg Asp Arg Asp Arg Glu Arg Arg Arg Ser His Arg Ser Glu Arg
 260 265 270
 Glu Arg Arg Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Glu His
 275 280 285
 Lys Arg Gly Glu Arg Gly Ser Glu Arg Gly Arg Asp Glu Ala Arg Gly
 290 295 300
 Gly Gly Gly Gly Gln Asp Asn Gly Leu Glu Gly Leu Gly Asn Asp Ser
 305 310 315 320
 Arg Asp Met Tyr Met Glu Ser Glu Gly Gly Asp Gly Tyr Leu Ala Pro
 325 330 335
 Glu Asn Gly Tyr Leu Met Glu Ala Ala Pro Glu
 340 345

<210> 6375

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6375

Tyr Arg Ser Thr Leu Gln Tyr Arg Ser Gly Ile Pro Gly Arg Pro Thr
 1 5 10 15
 Xaa Arg Leu Ala Ser Pro Phe Arg Pro Val Pro Met Glu Ala Leu Gly
 20 25 30
 Lys Leu Lys Gln Phe Asp Ala Tyr Pro Lys Thr Leu Glu Asp Phe Arg
 35 40 45
 Val Lys Thr Cys Gly Gly Ala Thr Val Thr Ile Val Ser Gly Leu Leu
 50 55 60
 Met Leu Leu Leu Phe Leu Ser Glu Leu Gln Tyr Tyr Leu Thr Thr Glu
 65 70 75 80

Val His Pro Glu Leu Tyr Val Asp Lys Ser Arg Gly Asp Lys Leu Lys

5618

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 85 | | | | | 90 | | | | | 95 | | | | | | |
| Ile | Asn | Ile | Asp | Val | Leu | Phe | Pro | His | Met | Pro | Cys | Ala | Tyr | Leu | Ser | |
| 100 | | | | | 105 | | | | | 110 | | | | | | |
| Ile | Asp | Ala | Met | Asp | Val | Ala | Gly | Glu | Gln | Gln | Leu | Asp | Val | Glu | His | |
| 115 | | | | | 120 | | | | | 125 | | | | | | |
| Asn | Leu | Phe | Lys | Gln | Arg | Leu | Asp | Lys | Asp | Gly | Ile | Pro | Val | Ser | Ser | |
| 130 | | | | | 135 | | | | | 140 | | | | | | |
| Glu | Ala | Glu | Arg | His | Glu | Leu | Gly | Lys | Val | Glu | Val | Thr | Val | Phe | Asp | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Pro | Asp | Ser | Leu | Asp | Pro | Asp | Arg | Cys | Glu | Ser | Cys | Tyr | Gly | Ala | Glu | |
| 165 | | | | | 170 | | | | | 175 | | | | | | |
| Ala | Glu | Asp | Ile | Lys | Cys | Cys | Asn | Thr | Cys | Glu | Asp | Val | Arg | Glu | Ala | |
| 180 | | | | | 185 | | | | | 190 | | | | | | |
| Tyr | Arg | Arg | Arg | Gly | Trp | Ala | Phe | Lys | Asn | Pro | Asp | Thr | Ile | Glu | Gln | |
| 195 | | | | | 200 | | | | | 205 | | | | | | |
| Cys | Arg | Arg | Glu | Gly | Phe | Ser | Gln | Lys | Met | Gln | Glu | Gln | Lys | Asn | Glu | |
| 210 | | | | | 215 | | | | | 220 | | | | | | |
| Gly | Cys | Gln | Val | Tyr | Gly | Phe | Leu | Glu | Val | Asn | Lys | Val | Ala | Gly | Asn | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Phe | His | Phe | Ala | Pro | Gly | Lys | Ser | Phe | Gln | Gln | Ser | His | Val | His | Val | |
| 245 | | | | | 250 | | | | | 255 | | | | | | |
| His | Asp | Leu | Gln | Ser | Phe | Gly | Leu | Asp | Asn | Ile | Asn | Met | Thr | His | Tyr | |
| 260 | | | | | 265 | | | | | 270 | | | | | | |
| Ile | Gln | His | Leu | Ser | Phe | Gly | Glu | Asp | Tyr | Pro | Gly | Ile | Val | Asn | Pro | |
| 275 | | | | | 280 | | | | | 285 | | | | | | |
| Leu | Asp | His | Thr | Asn | Val | Thr | Ala | Pro | Gln | Ala | Ser | Met | Met | Phe | Gln | |
| 290 | | | | | 295 | | | | | 300 | | | | | | |
| Tyr | Phe | Val | Lys | Val | Val | Pro | Thr | Val | Tyr | Met | Lys | Val | Asp | Gly | Glu | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Val | Leu | Arg | Thr | Asn | Gln | Phe | Ser | Val | Thr | Arg | His | Glu | Lys | Val | Ala | |
| 325 | | | | | 330 | | | | | 335 | | | | | | |
| Asn | Gly | Leu | Leu | Gly | Asp | Gln | Gly | Leu | Pro | Gly | Val | Phe | Val | Leu | Tyr | |
| 340 | | | | | 345 | | | | | 350 | | | | | | |
| Glu | Leu | Ser | Pro | Met | Met | Val | Lys | Leu | Thr | Glu | Lys | His | Arg | Ser | Phe | |

5619

355 360 365
 Thr His Phe Leu Thr Gly Val Cys Ala Ile Ile Gly Gly Met Phe Thr
 370 375 380
 Val Ala Gly Leu Ile Asp Ser Leu Ile Tyr His Ser Ala Arg Ala Ile
 385 390 395 400
 Gln Lys Lys Ile Asp Leu Gly Lys Thr Thr
 405 410

<210> 6376

<211> 539

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6376

Ile Xaa Ile Phe Thr Gln Xaa Xaa Ala Met Xaa Met Ile Thr Pro Ser
 1 5 10 15

Phe Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg
 20 25 30

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Ser Thr Thr Val Pro
 35 40 45

Gly Leu Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr
 50 55 60

5620

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Thr | Ala | Phe | Ser | His | Ser | Asn | Thr | Met | Ser | Ile | His | Ser | Gln | 65 | 70 | 75 | 80 |
| Gln | Ser | Thr | Pro | Phe | Pro | Asp | Ser | Pro | Gly | Phe | Thr | His | Thr | Val | Leu | 85 | 90 | 95 | |
| Pro | Ala | Thr | Leu | Thr | Thr | Thr | Asp | Ile | Gly | Gln | Glu | Ser | Thr | Ala | Phe | 100 | 105 | 110 | |
| His | Ser | Ser | Ser | Asp | Ala | Thr | Gly | Thr | Thr | Pro | Leu | Pro | Ala | Arg | Ser | 115 | 120 | 125 | |
| Thr | Ala | Ser | Asp | Leu | Val | Gly | Glu | Pro | Thr | Thr | Phe | Tyr | Ile | Ser | Pro | 130 | 135 | 140 | |
| Ser | Pro | Thr | Tyr | Thr | Thr | Leu | Phe | Pro | Ala | Ser | Ser | Ser | Thr | Ser | Gly | 145 | 150 | 155 | 160 |
| Leu | Thr | Glu | Glu | Ser | Thr | Thr | Phe | His | Thr | Ser | Pro | Ser | Phe | Thr | Ser | 165 | 170 | 175 | |
| Thr | Ile | Val | Ser | Thr | Glu | Ser | Leu | Glu | Thr | Leu | Ala | Pro | Gly | Leu | Cys | 180 | 185 | 190 | |
| Gln | Glu | Gly | Gln | Ile | Trp | Asn | Gly | Lys | Gln | Cys | Val | Cys | Pro | Gln | Gly | 195 | 200 | 205 | |
| Tyr | Val | Gly | Tyr | Gln | Cys | Leu | Ser | Pro | Leu | Glu | Ser | Phe | Pro | Val | Glu | 210 | 215 | 220 | |
| Thr | Pro | Glu | Lys | Leu | Asn | Ala | Thr | Leu | Gly | Met | Thr | Val | Lys | Val | Thr | 225 | 230 | 235 | 240 |
| Tyr | Arg | Asn | Phe | Thr | Glu | Lys | Met | Asn | Asp | Ala | Ser | Ser | Gln | Glu | Tyr | 245 | 250 | 255 | |
| Gln | Asn | Phe | Ser | Thr | Leu | Phe | Lys | Asn | Arg | Met | Asp | Val | Val | Leu | Lys | 260 | 265 | 270 | |
| Gly | Asp | Asn | Leu | Pro | Gln | Tyr | Arg | Gly | Val | Asn | Ile | Arg | Arg | Leu | Leu | 275 | 280 | 285 | |
| Asn | Gly | Ser | Ile | Val | Val | Lys | Asn | Asp | Val | Ile | Leu | Glu | Ala | Asp | Tyr | 290 | 295 | 300 | |
| Thr | Leu | Glu | Tyr | Glu | Glu | Leu | Phe | Glu | Asn | Leu | Ala | Glu | Ile | Val | Lys | 305 | 310 | 315 | 320 |
| Ala | Lys | Ile | Met | Asn | Glu | Thr | Arg | Thr | Thr | Leu | Leu | Asp | Pro | Asp | Ser | 325 | 330 | 335 | |

5621

Cys Arg Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp
 340 345 350
 Ser Ser Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys
 355 360 365
 Ala Ala Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly
 370 375 380
 Lys Leu Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met
 385 390 395 400
 Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys
 405 410 415
 Leu Cys Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu
 420 425 430
 Phe Asn Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met
 435 440 445
 Ala Val Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu
 450 455 460
 Ser Gln Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp
 465 470 475 480
 Arg Lys Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu
 485 490 495
 Asp Gln Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn
 500 505 510
 Asn Phe Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His
 515 520 525
 Ile Gln Arg Pro Glu Met Val Ala Ser Thr Val
 530 535

<210> 6377

<211> 365

<212> PRT

<213> Homo sapiens

<400> 6377

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu
 1 5 10 15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr

5622

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Gly | Arg | Pro | Asp | Ala | Ala | Met | Ala | Glu | Leu | Pro | Gly | Pro | Phe | Leu | Cys | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Gly | Ala | Leu | Leu | Gly | Phe | Leu | Cys | Leu | Ser | Gly | Leu | Ala | Val | Glu | Val | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Lys | Val | Pro | Thr | Glu | Pro | Leu | Ser | Thr | Pro | Leu | Gly | Lys | Thr | Ala | Glu | |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Leu | Thr | Cys | Thr | Tyr | Ser | Thr | Ser | Val | Gly | Asp | Ser | Phe | Ala | Leu | Glu | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Trp | Ser | Phe | Val | Gln | Pro | Gly | Lys | Pro | Ile | Ser | Glu | Ser | His | Pro | Ile | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Leu | Tyr | Phe | Thr | Asn | Gly | His | Leu | Tyr | Pro | Thr | Gly | Ser | Lys | Ser | Lys | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Arg | Val | Ser | Leu | Leu | Gln | Asn | Pro | Pro | Thr | Val | Gly | Val | Ala | Thr | Leu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Lys | Leu | Thr | Asp | Val | His | Pro | Ser | Asp | Thr | Gly | Thr | Tyr | Leu | Cys | Gln | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Val | Asn | Asn | Pro | Pro | Asp | Phe | Tyr | Thr | Asn | Gly | Leu | Gly | Leu | Ile | Asn | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Leu | Thr | Val | Leu | Val | Pro | Pro | Ser | Asn | Pro | Leu | Cys | Ser | Gln | Ser | Gly | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Gln | Thr | Ser | Val | Gly | Gly | Ser | Thr | Ala | Leu | Arg | Cys | Ser | Ser | Ser | Glu | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Gly | Ala | Pro | Lys | Pro | Val | Tyr | Asn | Trp | Val | Arg | Leu | Gly | Thr | Phe | Pro | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Thr | Pro | Ser | Pro | Gly | Ser | Met | Val | Gln | Asp | Glu | Val | Ser | Gly | Gln | Leu | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Ile | Leu | Thr | Asn | Leu | Ser | Leu | Thr | Ser | Ser | Gly | Thr | Tyr | Arg | Cys | Val | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Ala | Thr | Asn | Gln | Met | Gly | Ser | Ala | Ser | Cys | Glu | Leu | Thr | Leu | Ser | Val | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Thr | Glu | Pro | Ser | Gln | Gly | Arg | Val | Ala | Gly | Ala | Leu | Ile | Gly | Val | Leu | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Leu | Gly | Val | Leu | Leu | Leu | Ser | Val | Ala | Ala | Phe | Cys | Leu | Val | Arg | Phe | |

5623

290 295 300
 Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp
 305 310 315 320
 Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met
 325 330 335
 Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser
 340 345 350
 Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val
 355 360 365

 <210> 6378
 <211> 869
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6378
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Thr Xaa Ala Ser
 1 5 10 15
 Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val
 20 25 30
 Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg
 35 40 45
 Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser
 50 55 60
 Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys
 65 70 75 80
 Gly Glu Lys Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly
 85 90 95
 Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu
 100 105 110
 Trp Ala His Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu
 115 120 125

5624

Lys Phe Tyr Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala
 130 135 140
 Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys
 145 150 155 160
 Tyr Thr Lys Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys
 165 170 175
 Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile
 180 185 190
 Met Phe Ala Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln
 195 200 205
 Asn His Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu
 210 215 220
 Arg Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr
 225 230 235 240
 Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln
 245 250 255
 Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met
 260 265 270
 Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe
 275 280 285
 Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe
 290 295 300
 Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly
 305 310 315 320
 Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly
 325 330 335
 Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg
 340 345 350
 Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly
 355 360 365
 Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly
 370 375 380
 Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu
 385 390 395 400

5625

Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp
 405 410 415
 Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser
 420 425 430
 Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly
 435 440 445
 Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp
 450 455 460
 Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln
 465 470 475 480
 Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly
 485 490 495
 Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly
 500 505 510
 Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln
 515 520 525
 Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro
 530 535 540
 Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro
 545 550 555 560
 Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile
 565 570 575
 Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr
 580 585 590
 Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys
 595 600 605
 Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly
 610 615 620
 Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg
 625 630 635 640
 Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp
 645 650 655
 Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn
 660 665 670

5626

Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser
 675 680 685
 Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp
 690 695 700
 Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly
 705 710 715 720
 Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp
 725 730 735
 His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu
 740 745 750
 Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala
 755 760 765
 Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro
 770 775 780
 Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln
 785 790 795 800
 Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg
 805 810 815
 Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro
 820 825 830
 Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile
 835 840 845
 Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu
 850 855 860
 Gln Leu Ser Ile Ala
 865

<210> 6379

<211> 275

<212> PRT

<213> Homo sapiens

<400> 6379

Pro Thr Arg Pro His Ser Ser Gly Tyr Leu Pro Thr Met Ala Leu Val
 1 5 10 15

Leu Ile Leu Gln Leu Leu Thr Leu Trp Pro Leu Cys His Thr Asp Ile

5627

[illegible]

5628

<210> 6380

<211> 708

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6380

Pro Arg Arg Leu Leu Ser Thr Ser Arg Arg Cys Ser Arg Arg Arg Arg
 1 5 10 15

Leu Ala Val Arg Cys Gln Ala Ala Pro Ser Pro Gly Ala Arg Arg Leu
 20 25 30

Ala Cys Arg Gly Ala Pro Gly Arg Thr Ala Arg Pro Ala Pro Pro Pro
 35 40 45

Gly Ser Phe Gly Xaa Ala Met Gly Cys Cys Ser Ser Ala Ser Ser Ala
 50 55 60

Ala Gln Ser Ser Lys Arg Glu Trp Lys Pro Leu Glu Asp Arg Ser Cys
 65 70 75 80

Thr Asp Ile Pro Trp Leu Leu Leu Phe Ile Leu Phe Cys Ile Gly Met
 85 90 95

Gly Phe Ile Cys Gly Phe Ser Ile Ala Thr Gly Ala Ala Ala Arg Leu
 100 105 110

Val Ser Gly Tyr Asp Ser Tyr Gly Asn Ile Cys Gly Gln Lys Asn Thr
 115 120 125

Lys Leu Glu Ala Ile Pro Asn Ser Gly Met Asp His Thr Gln Arg Lys
 130 135 140

Tyr Val Phe Phe Leu Asp Pro Cys Asn Leu Asp Leu Ile Asn Arg Lys
 145 150 155 160

Ile Lys Ser Val Ala Leu Cys Val Ala Ala Cys Pro Arg Gln Glu Leu
 165 170 175

Lys Thr Leu Ser Asp Val Gln Lys Phe Ala Glu Ile Asn Gly Ser Ala
 180 185 190

Leu Cys Ser Tyr Asn Leu Lys Pro Ser Glu Tyr Thr Thr Ser Pro Lys
 195 200 205

5629

Ser Ser Val Leu Cys Pro Lys Leu Pro Val Pro Ala Ser Ala Pro Ile
 210 215 220
 Pro Phe Phe His Arg Cys Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys
 225 230 235 240
 Phe Ala Glu Ala Leu Ile Thr Phe Val Ser Asp Asn Ser Val Leu His
 245 250 255
 Arg Leu Ile Ser Gly Val Met Thr Ser Lys Glu Ile Ile Leu Gly Leu
 260 265 270
 Cys Leu Leu Ser Leu Val Leu Ser Met Ile Leu Met Val Ile Ile Arg
 275 280 285
 Tyr Ile Ser Arg Val Leu Val Trp Ile Leu Thr Ile Leu Val Ile Leu
 290 295 300
 Gly Ser Leu Gly Gly Thr Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln
 305 310 315 320
 Arg Arg Ser Pro Lys Glu Thr Val Thr Pro Glu Gln Leu Gln Ile Ala
 325 330 335
 Glu Asp Asn Leu Arg Ala Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val
 340 345 350
 Phe Thr Val Ile Leu Phe Leu Ile Met Leu Val Met Arg Lys Arg Val
 355 360 365
 Ala Leu Thr Ile Ala Leu Phe His Val Ala Gly Lys Val Phe Ile His
 370 375 380
 Leu Pro Leu Leu Val Phe Gln Pro Phe Trp Thr Phe Phe Ala Leu Val
 385 390 395 400
 Leu Phe Trp Val Tyr Trp Ile Met Thr Leu Leu Phe Leu Gly Thr Thr
 405 410 415
 Gly Ser Pro Val Gln Asn Glu Gln Gly Phe Val Glu Phe Lys Ile Ser
 420 425 430
 Gly Pro Leu Gln Tyr Met Trp Trp Tyr His Val Val Gly Leu Ile Trp
 435 440 445
 Ile Ser Glu Phe Ile Leu Ala Cys Gln Gln Met Thr Val Ala Gly Ala
 450 455 460
 Val Val Thr Tyr Tyr Phe Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr
 465 470 475 480

5630

Pro Ile Leu Ala Ser Val Asn Arg Leu Ile Arg Tyr His Leu Gly Thr
 485 490 495
 Val Ala Lys Gly Ser Phe Ile Ile Thr Leu Val Lys Ile Pro Arg Met
 500 505 510
 Ile Leu Met Tyr Ile His Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys
 515 520 525
 Ala Arg Cys Val Leu Lys Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu
 530 535 540
 Lys Cys Leu Asn Tyr Leu Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile
 545 550 555 560
 Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu
 565 570 575
 Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe
 580 585 590
 Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala
 595 600 605
 Gly Ile Met Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu
 610 615 620
 Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe
 625 630 635 640
 Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala
 645 650 655
 Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met
 660 665 670
 Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys
 675 680 685
 Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met
 690 695 700
 Leu Lys Lys Arg
 705

<210> 6381

<211> 625

<212> PRT

<213> Homo sapiens

5631

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (440)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6381

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Arg | Leu | Pro | Ala | Ala | Tyr | Ile | Lys | Ala | Pro | Gly | His | Ala | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Ser | Arg | Thr | Arg | Pro | Thr | Thr | Met | Arg | Ser | Cys | Leu | Trp | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | His | Leu | Ser | Gln | Gly | Val | Gln | Trp | Ser | Leu | Leu | Leu | Ala | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Phe | Phe | Leu | Phe | Ala | Leu | Pro | Ser | Phe | Ile | Lys | Glu | Pro | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | Pro | Ser | Arg | His | Gln | Arg | Thr | Glu | Asn | Ile | Lys | Glu | Arg | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Ser | Leu | Ala | Lys | Pro | Lys | Ser | Gln | Ala | Pro | Thr | Arg | Ala | Arg |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Thr | Ile | Tyr | Ala | Glu | Pro | Xaa | Pro | Glu | Asn | Asn | Ala | Leu | Asn |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5632

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu | | |
| 115 | 120 | 125 |
| Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala | | |
| 130 | 135 | 140 |
| Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn | | |
| 145 | 150 | 155 |
| Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr | | |
| | 165 | 170 |
| | | 175 |
| Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn | | |
| | 180 | 185 |
| | | 190 |
| Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys | | |
| | 195 | 200 |
| | | 205 |
| His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Xaa Lys Ser | | |
| | 210 | 215 |
| | | 220 |
| Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg | | |
| 225 | 230 | 235 |
| | | 240 |
| Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro | | |
| | 245 | 250 |
| | | 255 |
| Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg | | |
| | 260 | 265 |
| | | 270 |
| Asn Gln Arg Leu Lys Xaa Xaa Asn Phe Lys Ser Glu Pro Arg Trp Asp | | |
| | 275 | 280 |
| | | 285 |
| Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys | | |
| | 290 | 295 |
| | | 300 |
| Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys | | |
| 305 | 310 | 315 |
| | | 320 |
| Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn | | |
| | 325 | 330 |
| | | 335 |
| Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe | | |
| | 340 | 345 |
| | | 350 |
| Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro | | |
| | 355 | 360 |
| | | 365 |
| Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser | | |

5633

| | | | | | |
|---|-----|-----|-----|-----|-----|
| 370 | | 375 | | 380 | |
| Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn | | | | | |
| 385 | | 390 | | 395 | 400 |
| Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg | | | | | |
| | 405 | | 410 | | 415 |
| Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg | | | | | |
| | 420 | | 425 | | 430 |
| Thr Ser Phe Tyr Gly Phe Thr Xaa Phe Ser Leu Thr Gln Ser Leu Leu | | | | | |
| | 435 | | 440 | | 445 |
| Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val | | | | | |
| | 450 | | 455 | | 460 |
| Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu | | | | | |
| 465 | | 470 | | 475 | 480 |
| Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe | | | | | |
| | 485 | | 490 | | 495 |
| Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg | | | | | |
| | 500 | | 505 | | 510 |
| Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe | | | | | |
| | 515 | | 520 | | 525 |
| Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro | | | | | |
| | 530 | | 535 | | 540 |
| Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln | | | | | |
| 545 | | 550 | | 555 | 560 |
| Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp | | | | | |
| | 565 | | 570 | | 575 |
| His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His | | | | | |
| | 580 | | 585 | | 590 |
| Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly | | | | | |
| | 595 | | 600 | | 605 |
| Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys | | | | | |
| | 610 | | 615 | | 620 |
| Asn | | | | | |
| 625 | | | | | |

5634

<210> 6382

<211> 299

<212> PRT

<213> Homo sapiens

<400> 6382

Gln Met Glu Lys Lys Glu Cys Pro Glu Lys Ser Ser Ser Ser Glu Glu
 1 5 10 15

Glu Leu Pro Arg Arg Val Tyr Arg Glu Leu Pro Cys Val Ser Glu Thr
 20 25 30

Leu Cys Asp Ile Ser His Phe Phe Glu Glu Asp Asp Glu Thr Glu Ala
 35 40 45

Glu Pro Leu Leu Phe Arg Ala Val Pro Glu Cys Gln Leu Ser Gly Gly
 50 55 60

Asp Ile Pro Ser Val Ser Glu Glu Gln Glu Ser Ser Glu Gly Gln Asp
 65 70 75 80

Ser Gly Asp Ile Cys Ser Glu Glu Asn Gln Ile Val Ser Ser Tyr Ala
 85 90 95

Ser Lys Val Cys Phe Glu Ile Glu Glu Asp Tyr Lys Asn Arg Gln Phe
 100 105 110

Leu Gly Pro Glu Gly Asn Val Asp Val Glu Leu Ile Asp Lys Ser Thr
 115 120 125

Asn Arg Tyr Ser Val Trp Phe Pro Thr Ala Gly Trp Tyr Leu Trp Ser
 130 135 140

Ala Thr Gly Leu Gly Phe Leu Val Arg Asp Glu Val Thr Val Thr Ile
 145 150 155 160

Ala Phe Gly Ser Trp Ser Gln His Leu Ala Leu Asp Leu Gln His His
 165 170 175

Glu Gln Trp Leu Val Gly Gly Pro Leu Phe Asp Val Thr Ala Glu Pro
 180 185 190

Glu Glu Ala Val Ala Glu Ile His Leu Pro His Phe Ile Ser Leu Gln
 195 200 205

Ala Gly Glu Val Asp Val Ser Trp Phe Leu Val Ala His Phe Lys Asn
 210 215 220

Glu Gly Met Val Leu Glu His Pro Ala Arg Val Glu Pro Phe Tyr Ala
 225 230 235 240

5635

Val Leu Glu Ser Pro Ser Phe Ser Leu Met Gly Ile Leu Leu Arg Ile
 245 250 255

Ala Ser Gly Thr Arg Leu Ser Ile Pro Ile Thr Ser Asn Thr Leu Ile
 260 265 270

Tyr Tyr His Pro His Pro Glu Asp Ile Lys Phe His Leu Tyr Leu Val
 275 280 285

Pro Ser Asp Ala Leu Leu Thr Lys Thr Leu Phe
 290 295

<210> 6383

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6383

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
 1 5 10 15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
 20 25 30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
 35 40 45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
 50 55 60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65 70 75 80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
 85 90 95

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val

5636

130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
 245 250 255
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
 260 265 270
 Ser

<210> 6384

<211> 166

<212> PRT

<213> Homo sapiens

<400> 6384

Leu His Pro Gln Gly Arg Arg Lys Met Ala Ser Arg Ser Met Arg Leu
 1 5 10 15
 Leu Leu Leu Leu Ser Cys Leu Ala Lys Thr Gly Val Leu Gly Asp Ile
 20 25 30
 Ile Met Arg Pro Ser Cys Ala Pro Gly Trp Phe Tyr His Lys Ser Asn
 35 40 45
 Cys Tyr Gly Tyr Phe Arg Lys Leu Arg Asn Trp Ser Asp Ala Glu Leu
 50 55 60
 Glu Cys Gln Ser Tyr Gly Asn Gly Ala His Leu Ala Ser Ile Leu Ser
 65 70 75 80

5637

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Lys | Glu | Ala | Ser | Thr | Ile | Ala | Glu | Tyr | Ile | Ser | Gly | Tyr | Gln | Arg | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Gln | Pro | Ile | Trp | Ile | Gly | Leu | His | Asp | Pro | Gln | Lys | Arg | Gln | Gln | |
| | | | | 100 | | | | | 105 | | | | | 110 | | |
| Trp | Gln | Trp | Ile | Asp | Gly | Ala | Met | Tyr | Leu | Tyr | Arg | Ser | Trp | Ser | Gly | |
| | | | | 115 | | | | | 120 | | | | | 125 | | |
| Lys | Ser | Met | Gly | Gly | Asn | Lys | His | Cys | Ala | Glu | Met | Ser | Ser | Asn | Asn | |
| | | | | 130 | | | | | 135 | | | | | 140 | | |
| Asn | Phe | Leu | Thr | Trp | Ser | Ser | Asn | Glu | Cys | Asn | Lys | Arg | Gln | His | Phe | |
| | | | | 145 | | | | | 150 | | | | | 155 | | |
| Leu | Cys | Lys | Tyr | Arg | Pro | | | | | | | | | | | |
| | | | | | | 165 | | | | | | | | | | |

<210> 6385

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE .

$\langle 222 \rangle$ (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6385

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Gly | Arg | Thr | Ser | Xaa | Thr | Pro | His | Pro | Ser | Arg | Arg | Leu | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gln | Gly | Arg | Trp | Val | Arg | Lys | Ser | Arg | Val | Ala | Met | Glu | Lys | Ile | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Ser | Ala | Phe | Leu | Leu | Leu | Val | Ala | Leu | Ser | Tyr | Thr | Leu | Ala | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Asp | Thr | Thr | Val | Lys | Pro | Gly | Ala | Lys | Lys | Asp | Thr | Lys | Asp | Ser | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Pro | Lys | Leu | Pro | Gln | Thr | Leu | Ser | Arg | Gly | Trp | Gly | Asp | Gln | Leu | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5638

Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn
 85 90 95
 Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser Gln
 100 105 110
 Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu Ala
 115 120 125
 Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys His
 130 135 140
 Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro
 145 150 155 160
 Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg Leu
 165 170 175
 Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met Lys
 180 185 190
 Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu
 195 200

<210> 6386

<211> 251

<212> PRT

<213> Homo sapiens

<400> 6386

Arg Ser Gly Ser Leu Met Ala Ala Ala Ala Thr Lys Ile Leu Leu
 1 5 10 15
 Cys Leu Pro Leu Leu Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg
 20 25 30
 Ala Asp Pro His Ser Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe
 35 40 45
 Arg Pro Gly Pro Arg Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys
 50 55 60
 Thr Phe Leu His Tyr Asp Cys Gly Asn Lys Thr Val Thr Pro Val Ser
 65 70 75 80
 Pro Leu Gly Lys Lys Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn
 85 90 95

5639

Pro Val Leu Arg Glu Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp
 100 105 110

 Ile Gln Leu Glu Asn Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala
 115 120 125

 Arg Met Ser Cys Glu Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp
 130 135 140

 Gln Phe Ser Phe Asp Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys
 145 150 155 160

 Arg Met Trp Thr Thr Val His Pro Gly Ala Arg Lys Met Lys Glu Lys
 165 170 175

 Trp Glu Asn Asp Lys Val Val Ala Met Ser Phe His Tyr Phe Ser Met
 180 185 190

 Gly Asp Cys Ile Gly Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser
 195 200 205

 Thr Leu Glu Pro Ser Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr
 210 215 220

 Thr Gln Leu Arg Ala Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu
 225 230 235 240

 Ile Ile Leu Pro Cys Phe Ile Leu Pro Gly Ile
 245 250

<210> 6387

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6387

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr
 1 5 10 15

 Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu
 20 25 30

 Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu
 35 40 45

5640

His Leu Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu
 50 55 60
 Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr
 65 70 75 80
 Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp
 85 90 95
 Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile
 100 105 110
 Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
 115 120 125
 Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly
 130 135 140
 Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg
 145 150 155 160
 Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val
 165 170 175
 Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys
 180 185 190
 Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Xaa Ser Trp Ala
 195 200 205
 Ser Leu Gly Ile Thr Tyr Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro
 210 215 220
 Lys Arg Ser Ser Arg Lys Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn
 225 230 235 240
 Lys

<210> 6388

<211> 223

<212> PRT

<213> Homo sapiens

<400> 6388

Gly Phe Leu Leu His Pro Val Tyr Leu Leu Arg Val Ser Phe Pro Leu
 1 5 10 15

5641

Pro Thr Pro Ala Gly Gln Ser Trp Ala Pro Ala Pro Glu His Ser Arg
 20 25 30
 Ala Ala Arg Val Ser Arg Leu Glu Thr His Asp Thr Lys Glu Ile Gln
 35 40 45
 Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
 50 55 60
 Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
 65 70 75 80
 Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
 85 90 95
 Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
 100 105 110
 Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
 115 120 125
 Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
 130 135 140
 Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
 145 150 155 160
 Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp
 165 170 175
 Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe
 180 185 190
 Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp
 195 200 205
 Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe
 210 215 220

<210> 6389

<211> 268

<212> PRT

<213> Homo sapiens

<400> 6389

Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp
 1 5 10 15

Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu

5642

| 20 | | | | | 25 | | | | | 30 | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Arg | Lys | Arg | Ser | Met | Pro | Phe | Lys | Lys | Gly | Ala | Ala | Phe | Glu | Leu | |
| 35 | | | | | 40 | | | | | 45 | | | | | | |
| Val | Phe | Ile | Val | Leu | Ala | Glu | His | Tyr | Lys | Val | Val | Val | Asn | Gly | Asn | |
| 50 | | | | | 55 | | | | | 60 | | | | | | |
| Pro | Phe | Tyr | Glu | Tyr | Gly | His | Arg | Leu | Pro | Leu | Gln | Met | Val | Thr | His | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Leu | Gln | Val | Asp | Gly | Asp | Leu | Gln | Leu | Gln | Ser | Ile | Asn | Phe | Ile | Gly | |
| 85 | | | | | 90 | | | | | 95 | | | | | | |
| Gly | Gln | Pro | Leu | Arg | Pro | Gln | Gly | Pro | Pro | Met | Met | Pro | Pro | Tyr | Pro | |
| 100 | | | | | 105 | | | | | 110 | | | | | | |
| Gly | Pro | Gly | His | Cys | His | Gln | Gln | Leu | Asn | Ser | Leu | Pro | Thr | Met | Glu | |
| 115 | | | | | 120 | | | | | 125 | | | | | | |
| Gly | Pro | Pro | Thr | Phe | Asn | Pro | Pro | Val | Pro | Tyr | Phe | Gly | Arg | Leu | Gln | |
| 130 | | | | | 135 | | | | | 140 | | | | | | |
| Gly | Gly | Leu | Thr | Ala | Arg | Arg | Thr | Ile | Ile | Ile | Lys | Gly | Tyr | Val | Pro | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Pro | Thr | Gly | Lys | Ser | Phe | Ala | Ile | Asn | Phe | Lys | Val | Gly | Ser | Ser | Gly | |
| 165 | | | | | 170 | | | | | 175 | | | | | | |
| Asp | Ile | Ala | Leu | His | Ile | Asn | Pro | Arg | Met | Gly | Asn | Gly | Thr | Val | Val | |
| 180 | | | | | 185 | | | | | 190 | | | | | | |
| Arg | Asn | Ser | Leu | Leu | Asn | Gly | Ser | Trp | Gly | Ser | Glu | Glu | Lys | Lys | Ile | |
| 195 | | | | | 200 | | | | | 205 | | | | | | |
| Thr | His | Asn | Pro | Phe | Gly | Pro | Gly | Gln | Phe | Phe | Asp | Leu | Ser | Ile | Arg | |
| 210 | | | | | 215 | | | | | 220 | | | | | | |
| Cys | Gly | Leu | Asp | Arg | Phe | Lys | Val | Tyr | Ala | Asn | Gly | Gln | His | Leu | Phe | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Asp | Phe | Ala | His | Arg | Leu | Ser | Ala | Phe | Gln | Arg | Val | Asp | Thr | Leu | Glu | |
| 245 | | | | | 250 | | | | | 255 | | | | | | |
| Ile | Gln | Gly | Asp | Val | Thr | Leu | Ser | Tyr | Val | Gln | Ile | | | | | |
| 260 | | | | | 265 | | | | | | | | | | | |

<210> 6390

<211> 279

5643

<212> PRT

<213> Homo sapiens

<400> 6390

Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg Leu Thr
 1 5 10 15

Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu Pro Leu
 20 25 30

Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln Ala Gln
 35 40 45

Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys Asn Ala
 50 55 60

Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe Gly Leu
 65 70 75 80

Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met Gln Lys
 85 90 95

Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe Pro Asn
 100 105 110

Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val Ser Tyr
 115 120 125

Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser Lys Ala
 130 135 140

Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys Val Val
 145 150 155 160

Trp Gly Thr Ala Asp Ile Met Ile Gly Phe Ala Arg Gly Ala His Gly
 165 170 175

Asp Ser Tyr Pro Phe Asp Gly Pro Gly Asn Thr Leu Ala His Ala Phe
 180 185 190

Ala Pro Gly Thr Gly Leu Gly Gly Asp Ala His Phe Asp Glu Asp Glu
 195 200 205

Arg Trp Thr Asp Gly Ser Ser Leu Gly Ile Asn Phe Leu Tyr Ala Ala
 210 215 220

Thr His Glu Leu Gly His Ser Leu Gly Met Gly His Ser Ser Asp Pro
 225 230 235 240

Asn Ala Val Met Tyr Pro Thr Tyr Gly Asn Gly Asp Pro Gln Asn Phe
 245 250 255

5644

Lys Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Lys Leu Tyr Gly Lys
 260 265 270

Arg Ser Asn Ser Arg Lys Lys
 275

<210> 6391

<211> 245

<212> PRT

<213> Homo sapiens

<400> 6391

Leu Gln Phe Ser Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr
 1 5 10 15

Pro Leu Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala
 20 25 30

Pro Ala Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser
 35 40 45

Val Leu Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro
 50 55 60

Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp
 65 70 75 80

Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe
 85 90 95

Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg
 100 105 110

His Met Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro
 115 120 125

Glu Thr Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr
 130 135 140

His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr
 145 150 155 160

Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser
 165 170 175

Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe
 180 185 190

5645

His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr
 195 200 205
 Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile
 210 215 220
 Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn
 225 230 235 240
 Ser Met Asp Cys Ile
 245

<210> 6392

<211> 472

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6392

Leu Lys Gly Glu Gln Gly Glu Arg Gly Gln Trp Pro Glu Arg Ala Leu
 1 5 10 15

Gly Thr Gly Gly Thr Leu Phe Phe Leu Pro Arg Gly Pro Trp Ala Asp
 20 25 30

Gly Ile Thr Gln Lys Asn Ala Arg Glu Ala Ala Phe Glu Lys Gly Ser
 35 40 45

His Tyr Pro Arg Ala Gln Thr Glu Arg Met Glu Leu Arg Lys Tyr Gly
 50 55 60

Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly Ala Ala Gln Ser Lys
 65 70 75 80

Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu Phe Leu Pro Gly Leu
 85 90 95

Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser Gln Val Ser Asp His
 100 105 110

5646

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Leu | Asn | Asp | Ala | Glu | Val | Ala | Ala | Leu | Leu | Glu | Asn | Phe | Ser | 115 | 120 | 125 |
| Ser | Ser | Tyr | Asp | Tyr | Gly | Glu | Asn | Glu | Ser | Xaa | Ser | Cys | Cys | Thr | Ser | 130 | 135 | 140 |
| Pro | Pro | Cys | Pro | Gln | Asp | Phe | Ser | Leu | Asn | Phe | Asp | Arg | Ala | Phe | Leu | 145 | 150 | 155 |
| Pro | Ala | Leu | Xaa | Ser | Leu | Leu | Phe | Leu | Leu | Gly | Leu | Leu | Gly | Asn | Gly | 165 | 170 | 175 |
| Ala | Val | Ala | Ala | Val | Leu | Leu | Ser | Arg | Arg | Thr | Ala | Leu | Ser | Ser | Thr | 180 | 185 | 190 |
| Asp | Thr | Phe | Leu | Leu | His | Leu | Ala | Val | Ala | Asp | Thr | Leu | Leu | Val | Leu | 195 | 200 | 205 |
| Thr | Leu | Pro | Leu | Trp | Ala | Val | Asp | Ala | Ala | Val | Gln | Trp | Val | Phe | Gly | 210 | 215 | 220 |
| Ser | Gly | Leu | Cys | Lys | Val | Ala | Gly | Ala | Leu | Phe | Asn | Ile | Asn | Phe | Tyr | 225 | 230 | 235 |
| Ala | Gly | Ala | Leu | Leu | Leu | Ala | Cys | Ile | Ser | Phe | Asp | Arg | Tyr | Leu | Asn | 245 | 250 | 255 |
| Ile | Val | His | Ala | Thr | Gln | Leu | Tyr | Arg | Arg | Gly | Pro | Pro | Ala | Arg | Val | 260 | 265 | 270 |
| Thr | Leu | Thr | Cys | Leu | Ala | Val | Trp | Gly | Leu | Cys | Leu | Leu | Phe | Ala | Leu | 275 | 280 | 285 |
| Pro | Asp | Phe | Ile | Phe | Leu | Ser | Ala | His | His | Asp | Glu | Arg | Leu | Asn | Ala | 290 | 295 | 300 |
| Thr | His | Cys | Gln | Tyr | Asn | Phe | Pro | Gln | Val | Gly | Arg | Thr | Ala | Leu | Arg | 305 | 310 | 315 |
| Val | Leu | Gln | Leu | Val | Ala | Gly | Phe | Leu | Leu | Pro | Leu | Leu | Val | Met | Ala | 325 | 330 | 335 |
| Tyr | Cys | Tyr | Ala | His | Ile | Leu | Ala | Val | Leu | Leu | Val | Ser | Arg | Gly | Gln | 340 | 345 | 350 |
| Arg | Arg | Leu | Arg | Ala | Met | Arg | Leu | Val | Val | Val | Val | Val | Val | Ala | Phe | 355 | 360 | 365 |
| Ala | Leu | Cys | Trp | Thr | Pro | Tyr | His | Leu | Val | Val | Leu | Val | Asp | Ile | Leu | 370 | 375 | 380 |

5647

Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly Arg Glu Ser Arg Val
 385 390 395 400

Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly Tyr Met His Cys Cys
 405 410 415

Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val Lys Phe Arg Glu Arg
 420 425 430

Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro Asn Gln Arg Gly Leu
 435 440 445

Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr
 450 455 460

Ser Glu Ala Ser Tyr Ser Gly Leu
 465 470

<210> 6393

<211> 231

<212> PRT

<213> Homo sapiens

<400> 6393

Ala Arg Glu Met Ala Ala Gln Gln Arg Asp Cys Gly Gly Ala Ala Gln
 1 5 10 15

Leu Ala Gly Pro Ala Ala Glu Ala Asp Pro Leu Gly Arg Phe Thr Cys
 20 25 30

Pro Val Cys Leu Glu Val Tyr Glu Lys Pro Val Gln Val Pro Cys Gly
 35 40 45

His Val Phe Cys Ser Ala Cys Leu Gln Glu Cys Leu Lys Pro Lys Lys
 50 55 60

Pro Val Cys Gly Val Cys Arg Ser Ala Leu Ala Pro Gly Val Arg Ala
 65 70 75 80

Val Glu Leu Glu Arg Gln Ile Glu Ser Thr Glu Thr Ser Cys His Gly
 85 90 95

Cys Arg Lys Asn Phe Phe Leu Ser Lys Ile Arg Ser His Val Ala Thr
 100 105 110

Cys Ser Lys Tyr Gln Asn Tyr Ile Met Glu Gly Val Lys Ala Thr Ile
 115 120 125

Lys Asp Ala Ser Leu Gln Pro Arg Asn Val Pro Asn Arg Tyr Thr Phe

5648

130 135 140
 Pro Cys Pro Tyr Cys Pro Glu Lys Asn Phe Asp Gln Glu Gly Leu Val
 145 150 155 160
 Glu His Cys Lys Leu Phe His Ser Thr Asp Thr Lys Ser Val Val Cys
 165 170 175
 Pro Ile Cys Ala Ser Met Pro Trp Gly Asp Pro Asn Tyr Arg Ser Ala
 180 185 190
 Asn Phe Arg Glu His Ile Gln Arg Arg His Arg Phe Ser Tyr Asp Thr
 195 200 205
 Phe Val Asp Tyr Asp Val Asp Glu Glu Asp Met Met Asn Gln Val Leu
 210 215 220
 Gln Arg Ser Ile Ile Asp Gln
 225 230

<210> 6394

<211> 625

<212> PRT

<213> Homo sapiens

<400> 6394

Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu
 1 5 10 15
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg
 20 25 30
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val
 35 40 45
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln
 50 55 60
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser
 65 70 75 80
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg
 85 90 95
 Arg Thr Thr Ile Tyr Ala Glu Pro Val Pro Glu Asn Asn Ala Leu Asn
 100 105 110
 Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu
 115 120 125

5649

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asn | Gln | Ala | Pro | Pro | Glu | Gln | Asp | Lys | Val | Pro | His | Thr | Ala | |
| 130 | | | | | | 135 | | | | 140 | | | | | |
| Gln | Arg | Ala | Ala | Trp | Lys | Ser | Pro | Glu | Lys | Glu | Lys | Thr | Met | Val | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Thr | Leu | Ser | Pro | Arg | Gly | Gln | Asp | Ala | Gly | Met | Ala | Ser | Gly | Arg | Thr |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Glu | Ala | Gln | Ser | Trp | Lys | Ser | Gln | Asp | Thr | Lys | Thr | Thr | Gln | Gly | Asn |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Gly | Gly | Gln | Thr | Arg | Lys | Leu | Thr | Ala | Ser | Arg | Thr | Val | Ser | Glu | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| His | Gln | Gly | Lys | Ala | Ala | Thr | Thr | Ala | Lys | Thr | Leu | Ile | Pro | Lys | Ser |
| 210 | | | | | | 215 | | | | | 220 | | | | |
| Gln | His | Arg | Met | Leu | Ala | Pro | Thr | Gly | Ala | Val | Ser | Thr | Arg | Thr | Arg |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Gln | Lys | Gly | Val | Thr | Thr | Ala | Val | Ile | Pro | Pro | Lys | Glu | Lys | Lys | Pro |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Gln | Ala | Thr | Pro | Pro | Pro | Ala | Pro | Phe | Gln | Ser | Pro | Thr | Thr | Gln | Arg |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Asn | Gln | Arg | Leu | Lys | Ala | Ala | Asn | Phe | Lys | Ser | Glu | Pro | Arg | Trp | Asp |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Phe | Glu | Glu | Lys | Tyr | Ser | Phe | Glu | Ile | Gly | Gly | Leu | Gln | Thr | Thr | Cys |
| 290 | | | | | | 295 | | | | | 300 | | | | |
| Pro | Asp | Ser | Val | Lys | Ile | Lys | Ala | Ser | Lys | Ser | Leu | Trp | Leu | Gln | Lys |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Leu | Phe | Leu | Pro | Asn | Leu | Thr | Leu | Phe | Leu | Asp | Ser | Arg | His | Phe | Asn |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Gln | Ser | Glu | Trp | Asp | Arg | Leu | Glu | His | Phe | Ala | Pro | Pro | Phe | Gly | Phe |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Met | Glu | Leu | Asn | Tyr | Ser | Leu | Val | Gln | Lys | Val | Val | Thr | Arg | Phe | Pro |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Pro | Val | Pro | Gln | Gln | Gln | Leu | Leu | Leu | Ala | Ser | Leu | Pro | Ala | Gly | Ser |
| | | 370 | | | | 375 | | | | | 380 | | | | |
| Leu | Arg | Cys | Ile | Thr | Cys | Ala | Val | Val | Gly | Asn | Gly | Gly | Ile | Leu | Asn |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |

5650

Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg
 405 410 415
 Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg
 420 425 430
 Thr Ser Phe Tyr Gly Phe Thr Ala Phe Ser Leu Thr Gln Ser Leu Leu
 435 440 445
 Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val
 450 455 460
 Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu
 465 470 475 480
 Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe
 485 490 495
 Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg
 500 505 510
 Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe
 515 520 525
 Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro
 530 535 540
 Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln
 545 550 555 560
 Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp
 565 570 575
 His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His
 580 585 590
 Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly
 595 600 605
 Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys
 610 615 620
 Asn
 625

<210> 6395

<211> 165

<212> PRT

5651

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6395

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Gln | Xaa | Xaa | Pro | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr | Thr | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Xaa | Leu | Leu | Val | Arg | Leu | Gln | Val | Pro | Val | Arg | Asn | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Pro | Arg | Val | Arg | Phe | Ser | Ser | Asp | Lys | Thr | Ala | Leu | Val | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Met | Leu | Ser | Glu | Gln | Ile | Val | Tyr | Leu | Cys | Leu | Ser | Ile | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Gly | Gly | Cys | Leu | Gln | Thr | Phe | Asp | Gln | Asp | Ile | His | Leu | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Val | Phe | Phe | Phe | Tyr | Cys | Cys | Phe | Phe | Leu | Arg | Gln | Arg | Phe |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ser | Pro | Arg | Leu | Glu | Cys | Cys | Gly | Val | Ile | Leu | Ala | His | Cys |
| | | | 100 | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Arg | Leu | Pro | Gly | Ser | Ser | Asn | Phe | Pro | Ala | Ser | Ala | Ser | Arg |
| | 115 | | | | | | 120 | | | | | | 125 | | |

5652

Val Pro Gly Thr Ile Cys Ala His His His Ala Trp Leu Ile Phe Cys
130 135 140

Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Leu Gly Trp Ser Arg
145 150 155 160

Thr Pro Asn Leu Lys
165

<210> 6396

<211> 35

<212> PRT

<213> Homo sapiens

<400> 6396

Phe Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Asn Pro Gly
1 5 10 15

Asp Gly Gly Cys Ser Asp Pro Arg Ser Cys Gln Cys Thr Pro Ala Trp
20 25 30

Val Thr Glu
35

<210> 6397

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5653

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6397

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Gln | Met | Gln | Pro | Gly | Gly | Val | Gln | Ala | Pro | Xaa | Ile | Gln | Gln |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Ala | Pro | Xaa | Pro | Gly | Gly | Ile | Ser | Pro | Gln | Thr | Gly | Gly | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Xaa | Xaa | Xaa | Ile |
| | | | | | 35 |

<210> 6398

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6398

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Glu | Leu | Trp | Ala | Glu | Glu | Tyr | Ala | His | Val | Val | Leu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Asp | Ile | Asp | Leu | Thr | Lys | Arg | Ala | Gly | Glu | Leu | Thr | Glu | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Glu | Arg | Val | Ile | Thr | Ile | Met | Gln | Asn | Pro | Arg | His | Thr | Arg |
| | | | 35 | | | | | 40 | | | | | 45 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Gly | Ser |
| | | | | 50 |

<210> 6399

<211> 54

<212> PRT

<213> Homo sapiens

<400> 6399

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Val | Pro | Pro | Ser | Leu | Ala | Gly | Ile | Met | Gln | Arg | Thr | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Leu | Leu | Asp | Arg | Val | Gln | His | Leu | Gly | Ala | Pro | Val | Thr | Leu |
| | | | 20 | | | | | | 25 | | | | | 30 | |

5654

Arg Ala Ser Tyr Leu Glu Ile Tyr Asn Glu Gln Val Ser Ala Val Glu
35 40 45

Gly Thr Gln Pro Thr Pro
50

<210> 6400

<211> 73

<212> PRT

<213> Homo sapiens

<400> 6400

Gly Lys Ile Asp Pro Asp Gln Thr Val Ile Arg Ala Glu Ser Leu Asp
1 5 10 15

Gly Gly Asp Thr Ser Ser Thr Val Val Glu Ser Gln Glu Gly Leu Ser
20 25 30

Gly Thr His Val Pro Glu Ser Ser Asp Cys Cys Glu Gly Phe Ile Asn
35 40 45

Thr Phe Ser Ser Asn Asp Met Asp Gly Gln Asp Leu Asp Tyr Phe Asn
50 55 60

Ile Asp Glu Arg Ala Lys Met Ala His
65 70

<210> 6401

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

5655

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6401
Glu Ser Xaa Trp Lys Thr Xaa His Tyr Ser Xaa Ser Trp Tyr Xaa Cys
1 5 10 15
Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Pro Gly
20 25 30
Thr Ser Thr Asn Gly Lys Xaa Leu Ala Ala Thr Ala Pro Thr Pro Gly
35 40 45

5656

Ile Pro Ile Leu Gln Xaa Xaa Pro Ser Ala Pro Pro Pro Lys Ala Gln
50 55 60
Xaa Val Ser Pro Val Gln Ala Pro Pro Pro Gly Gly Ser Xaa Gln Leu
65 70 75 80
Leu Pro Gly Lys Val Leu Xaa Pro Leu Ala Xaa Pro Ser Met Ser Val
85 90 95
Arg Gly Gly Gly Ala
100

<210> 6402

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5657

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6402

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Tyr | Tyr | Leu | Lys | Phe | Ser | Val | Val | Ser | Asp | Lys | Asn | His | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Phe | Gly | Ala | Ile | Thr | Xaa | Ala | Met | Gly | Ile | Arg | Phe | Lys | Ser | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Asn | Leu | Val | Arg | Thr | Leu | Met | Val | Asp | Pro | Ser | Gln | Glu | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Asn | Tyr | Asn | Phe | Xaa | Leu | Gln | Leu | Gln | Glu | Glu | Leu | Leu | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Arg | His | Gly | Glu | Lys | Ile | Cys | Asp | Xaa | Tyr | Asn | Ala | Xaa | Met |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Val | Lys | Lys | Xaa | Lys | Pro | Glu | Leu | Xaa | Asn | Xaa | Asn | Tyr | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Arg | Val | Arg | Asp | Gly | Asn |
| | | | | | | | 100 |

<210> 6403

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

5658

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6403

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Xaa | Glu | Xaa | Xaa | Pro | Thr | Val | Xaa | Gln | Val | Glu | Xaa | Ala | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Ile | Gln | Val | Glu | Lys | Ala | Ala | His | Ser | Ile | Gln | Val | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Pro | Gln | Xaa | Ser | Arg | Val | Arg | Arg | Gln | Pro | Thr | Gly | Ile | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Glu | Gly | Cys | Pro | Gln | Ala | Ser | Arg | Val | Arg | Lys | Ala | Ala | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | |
|-----|-----|-----|-----|
| Arg | His | Pro | Xaa |
| 65 | | | |

<210> 6404

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5659

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6404

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Asp | Pro | Leu | Arg | Ser | Cys | Cys | Leu | Val | Ala | Ala | Asp | Ala | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Glu | Gly | Ala | Gly | Ser | Asp | Ser | Gly | Asp | Ser | Pro | Ala | Ser | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Ser | Ser | Glu | Asp | Ser | Glu | Gln | Arg | Gly | Val | Gly | Ala | Gly | Gly |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Glu | Gly | Ala | Pro | Pro | Ala | Thr | Ser | Ala | Glu | Arg | Thr | Asn | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Asp | Xaa | Ala | Trp | Ala | Phe | Leu | Thr | Phe | Thr | Xaa | Thr | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Ser | Arg | Xaa | Ser | Arg | Xaa |
| | | | | 85 | | | |

<210> 6405

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6405

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Tyr | Met | Asn | Ser | Tyr | Phe | Phe | Leu | Asp | Asn | Met | Leu | Ile | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Phe | Thr | Asn | Leu | Gln | His | Met | Gly | Asp | Phe | Gly | Ser | Ile | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5660

Arg Pro Gly Ile Val Val Asp Tyr Gln Asn Lys Ser Thr Asn Val Thr
 35 40 45

Val Ala Ala Ala Arg Gly Ile Xaa Arg Lys Met Met Gln Pro Phe Asn
 50 55 60

Lys Pro Ser Gly Thr Phe Ile Lys Asn Pro Asn
 65 70 75

<210> 6406

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6406

Ala Leu Ser Gln Ile Thr Leu Arg Lys Ser Val Glu Ser Ala Leu Arg
 1 5 10 15

Gln Leu Glu Arg Glu Lys Ala Leu Leu Gln His Lys Asn Ala Glu Tyr
 20 25 30

Gln Arg Lys Ala Asp His Glu Ala Asp Xaa Lys Arg Xaa Leu Glu Asn
 35 40 45

Asp Gly Leu Xaa Xaa Arg Ile Leu Asn Thr His Gln Glu Lys
 50 55 60

5661

<210> 6407

<211> 48

<212> PRT

<213> Homo sapiens

<400> 6407

Arg Gln Ser Gln Leu Ala Gln Asp Glu Arg Val Ser Arg Ser Tyr Leu
 1 5 10 15

Ala Leu Ala Thr Glu Thr Val Asp Met Phe His Ile Leu Pro Gln Ser
 20 25 30

Asn Val Ser Pro Arg Ala Arg Phe Cys Ser Met Lys Val Trp Ser Leu
 35 40 45

<210> 6408

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6408

Gly Thr Ser Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe
 1 5 10 15

Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr
 20 25 30

Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Xaa
 35 40 45

Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile
 50 55 60

Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp
 65 70 75 80

Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn
 85 90 95

Leu Cys Met Val Thr Trp Arg Cys
 100

5662

<210> 6409

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6409

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Leu | Pro | Ala | Val | Phe | Pro | Gly | Gln | Val | Arg | Arg | Thr | Leu | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Gly | Leu | Pro | Arg | Asp | Ala | Arg | Lys | Glu | Thr | Xaa | Glu | Ser | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Asp | Ala | Tyr | Pro | Thr | Cys | Lys | Val | Val | Asp | Val | Gln | Leu | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Tyr

<210> 6410

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

5663

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6410

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Glu | Ile | Xaa | Arg | Ser | Phe | His | Leu | Val | Ile | Ser | Thr | Glu | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Pro | Thr | Met | Glu | Phe | Gly | Pro | Ser | Trp | Val | Phe | Leu | Val | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Lys | Gly | Val | His | Cys | Glu | Val | Gln | Leu | Val | Glu | Ser | Gly | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Val | Gln | Pro | Gly | Arg | Ser | Leu | Arg | Leu | Ser | Cys | Thr | Thr | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Thr | Phe | Gly | Asp | Tyr | Ser | Met | Ser | Trp | Val | Arg | Gln | Ala | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Gly | Leu | Glu | Trp | Val | Gly | Phe | Ile | Arg | Ser | Lys | Ala | His | Gly |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Thr | Glu | Tyr | Ala | Ala | Ser | Val | Lys | Arg | Gln | Ile | His | His | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Met | Ile | Pro | Gln | Ala | Ser | Xaa | Ile | Trp | Gln | Met | Asn | Ser | Leu |
| | | | 115 | | | | | 120 | | | | 125 | | | |

5664

Lys Pro Arg Thr Gln Thr Leu Leu Leu Ser Arg His Asp Tyr Arg His
 130 135 140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly
 145 150 155 160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa
 165 170 175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa
 180 185 190

<210> 6411

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6411

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ser Phe Gln Ile
 20 25 30

Lys Asn Trp Leu Pro Phe Phe Val Arg Val Ser Asp Ala Ala Thr His
 35 40 45

Ser Ala Pro Gln Asn Ser
 50

<210> 6412

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5665

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6412

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Thr | Xaa | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Gly | Ala | Xaa | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Arg | Gly | Gly | Ala | Pro | Val | Met | Leu | Ser | Thr | Leu | Gln | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Cys | Cys | Leu | Ser | His |
| | | 50 | | |

<210> 6413

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5666

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6413

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Xaa | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Xaa | Ser | Ala | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Xaa | Gly | Pro | Leu | Gln | Pro | Cys | Arg | Ile | Lys | Thr | Arg | Arg | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | His | Gln | Lys | Gln | Gly | Arg | Val | Glu | Lys | Val | Gln | Lys | Lys | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | |
|-----|-----|-----|
| Lys | Thr | Gln |
| 65 | | |

<210> 6414

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6414

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5667

20 25 30

Arg Gly Gly Ile Val Cys Leu Leu Leu Met Asn Leu Gln Trp Leu Gln

35 40 45

Asn Asp

50

<210> 6415

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6415

Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
1 5 10 15

Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Ala Thr Thr Gly Glu Ser Ile His Gln Val Thr Glu Phe Leu Gln
35 40 45

Arg Gly His Tyr
50

<210> 6416

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5668

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6416

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Lys | Xaa | Xaa | Xaa | Ser | Thr | Ala | Val | Xaa | Ala | Ala | Leu | Glu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg | Ala | Val | Leu | Phe | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ile | Met | Asn | Ser | Trp | Leu | Arg |
| | | | 35 | | | |

<210> 6417

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6417

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg |
| | | | 20 | | | | | | 25 | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Leu | Met | Met | Thr | Phe | Ser | Gln | Val | Leu | Gly | Lys | Lys | Leu | Lys |
| | | | 35 | | | | | 40 | | | | 45 | | | |

5669

Leu Leu Leu
50

<210> 6418

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6418

Ser Thr Leu Ile Lys Gly Thr Lys Ser Trp Xaa Ser Thr Ala Val Ala
1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30

Asp Asp Ile Glu Thr Ser Val Ile
35 40

<210> 6419

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6419

Gly Xaa Xaa Asn Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
1 5 10 15

Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
20 25 30

Ala Arg Gly Leu Ile Ser Ser His Leu
35 40

5670

<210> 6420

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6420

Xaa Ser Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val

1

5

10

15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala

20

25

30

Arg Ala Phe Gly Phe

35

<210> 6421

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6421

Lys Asn His Lys Pro Ser Val Leu Leu Gly Phe Asp Met Ser Glu Leu

1

5

10

15

Lys Asn Val Lys His Arg Leu Asn Phe Glu Tyr Glu Pro

20

25

<210> 6422

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5671

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6422

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ile | Gln | Arg | Thr | Pro | Lys | Ile | Gln | Val | Tyr | Ser | Arg | His | Pro | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Gly | Lys | Ser | Asn | Phe | Leu | Asn | Cys | Tyr | Val | Ser | Gly | Phe | His |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Asp | Ile | Glu | Val | Asp | Leu | Leu | Lys | Asn | Gly | Glu | Arg | Ile | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Glu | His | Ser | Asp | Leu | Ser | Phe | Ser | Lys | Asp | Trp | Leu | Ser | Ile |
| | 50 | | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Thr | Thr | Leu | Asn | Ser | Pro | Pro | Leu | Lys | Lys | Met | Ser | Met | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | |
|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Thr | Met |
| | | | | 85 |

<210> 6423

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5672

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6423

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Ser | Lys | Val | Leu | Tyr | Ile | Thr | Ser | Asn | Pro | Met | Ser | Leu | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Ser | Arg | His | Gln | Pro | Asn | Val | Asn | Asp | Leu | Leu | Val | His | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Gln | Pro | Arg | Asn | Leu | Ser | Leu | Met | Asp | Lys | Leu | Leu | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Asp | Lys | Leu | Leu | Met | Arg | Pro | Gly | Ser | Ser | Thr | Ile | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Asn | Trp | Pro | Asn | Arg | Ala | Val | Glu | Phe | Ser | Thr | Ser | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Thr | Val | Gln | Ser | Thr | Arg | Arg | Arg | Asn | Pro | Pro | Pro | Arg | Thr |
| | | | | 85 | | | | | | 90 | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Pro | Ile | Ser | Thr | Xaa | His | Ser | Cys | Ala | Glu | Thr | Pro | Gly | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Glu | Ile | Leu | Arg | Gly | Ala | Arg | Val | Pro | Xaa | Ala | Pro | Asp | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Phe | Ser | Leu | Thr | Asp | Ala | Pro | Glu | Leu | Lys | Leu | Ile | Cys | Tyr |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Leu | Gly | Thr | Ala | Glu | Val | Xaa | Thr | Cys | Asp | His | Cys | Xaa | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Arg | Asp | Lys | Met | Asn | Pro | Gln | Trp | Xaa | Leu | Xaa |
| | | | | 165 | | | | | 170 | | |

5673

<210> 6424

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6424

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Thr | Ser | Ile | Glu | Val | Arg | Asn | Tyr | Ser | Arg | Leu | Lys | Pro | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Trp | Glu | Arg | Gln | Leu | Val | Phe | Arg | Ser | Lys | Leu | Thr | Met | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Phe | Asn | Arg | Lys | Asp | Asn | Ala | His | Pro | Ala | Glu | Val | Thr | Ala |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Ile | Ser | Lys | Asp | His | Ser | Arg | Ile | Leu | Val | Gly | Asp | Ser | Arg |
| | | | 50 | | | | 55 | | | | | 60 | | | |

5674

Gly Arg Val Phe Ser Trp Ser Val Ser Asp Gln Pro Gly Arg Ser Ala
 65 70 75 80

Ala Asp His Trp Val Lys Asp Glu Gly Gly Asp Ser Cys Ser Gly Cys
 85 90 95

Ser Val Arg Phe Ser Leu Thr Xaa Xaa Arg His His Xaa Arg Asn Xaa
 100 105 110

Gly Ser Ala Leu Leu Pro Glu Val His Arg Phe Xaa Ser Glu Xaa Asn
 115 120 125

Val

<210> 6425

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6425

Asp Glu Leu Ser Glu Ala Leu Leu Leu Ile Lys Ala Gln Lys Glu Gln
 1 5 10 15

Lys Asn Gly Asp Leu Ser Phe Leu Val Lys Val Asp Ser Glu Ile Asn
 20 25 30

Lys Asp Leu Glu Arg Ser Met Arg Glu Leu Gln Ala Thr His Ala Glu
 35 40 45

Thr Val Gln Glu Leu Glu Lys Thr Arg Asn Met Leu Ile Met Gln His
 50 55 60

Lys Ile Asn Lys Asp Tyr Gln Met Glu Val Glu Ala Val Thr Arg Lys
 65 70 75 80

Met Glu Asn Leu Gln Gln Asp Tyr Glu Leu Lys Val Glu Gln Tyr Val
 85 90 95

His Leu Leu Asp Ile Arg Ala Ala Arg Ile His Lys Leu Glu Glu Ala
 100 105 110

Val Ser Leu Gly Ser Ile
 115

<210> 6426

<211> 51

5675

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6426

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Gly | Gly | Xaa | Val | Asn | Leu | Leu | Lys | Leu | Val | Pro | Cys | Xaa | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Val | Gln | Asp | Gly | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Ala | Gly | Leu | Ser | Ala | His | Gln | Ala | Arg | Pro | Ile | Leu | Arg | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Val | Xaa | Xaa |
| | | 50 |

<210> 6427

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

5676

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6427

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Leu | Leu | Ala | Leu | Leu | Cys | Ala | Ser | Ala | Ser | Gly | Asn | Ala | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Arg | Ser | Ser | Ser | Tyr | Ser | Gly | Glu | Tyr | Gly | Gly | Gly | Gly | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Phe | Xaa | His | Ser | Gly | Asn | Gln | Leu | Asp | Gly | Pro | Ile | Thr | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Val | Arg | Val | Asn | Thr | Tyr | Tyr | Ile | Val | Gly | Leu | Gln | Val | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Lys | Val | Trp | Ser | Asp | Tyr | Val | Gly | Gly | Arg | Asn | Gly | Asp | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Ile | Phe | Leu | Xaa | Pro | Gly | Glu | Ser | Val | Ile | Gln | Val | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Lys | Trp | Tyr | Leu | Lys | Glu | Ala | Gly | Ile | Xaa |
| | | | | 100 | | | | 105 | | | |

<210> 6428

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

5677

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6428
 Pro Phe Ser Val Pro Gln Pro Leu Ala Met Pro Phe Arg Pro Gly Leu
 1 5 10 15
 Pro Pro Ile Val Glu Ser Met Xaa Val Val Val Glu Thr Ile Leu Ser
 20 25 30
 Phe Trp Gln Pro Val Gly Arg Pro Ile Thr Ala Leu Arg Val Arg Xaa
 35 40 45
 Asn Thr Tyr Tyr Ile Xaa Gly Leu Gln Val Ala Tyr Gly Gln Gly Xaa
 50 55 60
 Glu Xaa Thr Ile Xaa Val Cys Ser Pro Thr Gly Lys Pro Gly Xaa Lys
 65 70 75 80
 Ile Phe Ser Cys Pro Pro Trp Gly Asn
 85

5678

<210> 6429

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6429

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Ser | Ile | Met | Phe | Thr | Pro | Leu | Asp | Arg | Tyr | Xaa | Asp | Arg | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Ile | Asn | Arg | His | Gln | Tyr | Cys | Ala | Leu | Lys | Ala | Met | Ser | Ala |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Cys | Cys | Gly | Pro | Val | Ala | Asp | Asn | Val | Gly | Leu | Ser | Ser | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Leu | Tyr | Lys | Trp | Leu | Asp | Asn | Ile | Leu | Asp | Ser | Leu | Asp | Lys |
| | 50 | | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | His | Gln | Leu | Gly | Cys | Glu | Ala | Val | Thr | Leu | Leu | Leu | Glu | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5679

Asn Pro Asp Gln Ser Asn Leu Met Tyr Trp Ala Val Asp Arg Cys Tyr
 85 90 95
 Thr Gly Ser Gly Arg Val Ala Ala Gly Cys Phe Lys Ala Ile Ala Asn
 100 105 110
 Val Phe Gln Asn Arg Asp Tyr Gln Cys Asp Thr Val Met Leu Leu Asn
 115 120 125
 Leu Ile Leu Xaa Lys Ala Ala Asp Ser Ser Arg Ser Ile Tyr Glu Val
 130 135 140
 Ala Met Gln Leu Leu Gln Ile Leu Glu Pro Lys Met Phe Arg Tyr Ala
 145 150 155 160
 His Lys Leu Xaa Val Gln Arg Thr Glu Trp Arg Thr His Pro Val Xaa
 165 170 175
 Pro Xaa His Asn Xaa
 180

<210> 6430

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> xaa equals any of the naturally occurring L-amino acids

<400> 6430

Gly Arg Val Xaa Gly Arg Val Gly Gly Ala Val Phe Gln Ile Tyr Ile
 1 5 10 15
 Ile Lys Asp Leu Glu Lys Leu Leu Met Ile Ala Gly Glu Glu Arg Ala
 20 25 30
 Leu Cys Leu Val Asp Val Lys Lys Val Lys Gln Ser Leu Ala Gln Ser
 35 40 45
 His Leu Pro Ala Gln Pro Asp Ile Ser Pro Asn Ile Phe Glu Ala Val
 50 55 60
 Lys Gly Cys His Leu Phe Gly Ala Gly Gln Glu Leu Arg Thr
 65 70 75

5680

<210> 6431
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5681

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6431

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Cys | Arg | Ser | Ser | Thr | Leu | Xaa | Gln | His | Xaa | Arg | Val | His | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Arg | Pro | Tyr | Lys | Cys | Asp | Asp | Cys | Xaa | Lys | Ala | Xaa | Ser | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Asp | Leu | Ile | Arg | His | Gln | Xaa | Thr | His | Xaa | Xaa | Asp | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Gly | Ala | Pro | Ala | Trp | Val | Xaa | Gly | Val | Gly | Arg | Arg |
| | 50 | | | | | 55 | | | | | 60 | | |

<210> 6432

<211> 72

<212> PRT

<213> Homo sapiens

<400> 6432

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Arg | Cys | Ser | Leu | Gln | Leu | Ala | Glu | Thr | Glu | Arg | Glu | Gly | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Pro | His | Ile | Ser | Pro | Phe | Thr | Ala | Val | Asn | Asp | Leu | Gly | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Arg | Ala | Gly | Phe | Asn | Thr | Leu | Thr | Val | Asp | Thr | Asp | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Val | Asn | Tyr | Pro | Gly | Met | Phe | Glu | Leu | Met | Glu | Asp | Leu | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

5682

Glu Gln Lys Ser Arg Met Leu Thr
65 70

<210> 6433

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

5683

<400> 6433

Xaa Xaa Lys Leu Pro Xaa Glu Gly Pro Leu Gly Arg Leu Xaa Val Pro
 1 5 10 15
 Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro
 20 25 30
 Arg Val Arg Glu Phe Arg Lys Ala Lys Ala Ser Ser Thr Gly Ser Phe
 35 40 45
 Thr Ala Pro Asp Pro Gly Leu Lys Arg Lys Ser Pro Pro Glu Ala Leu
 50 55 60
 Ser Gly Ser Leu Pro Pro Ala Thr Thr Cys Pro Ala Ser Ser Thr Pro
 65 70 75 80
 Ala Pro Thr Ile Ile Pro Ala Pro Ala Ala Pro Gly Lys Pro Ala Ser
 85 90 95
 Ala Ala Thr Val Lys Arg Lys Arg Lys Ser Arg Trp Gly Pro Glu Glu
 100 105 110
 Asp Lys Val Glu Leu Pro Pro Ala Glu Leu Val Gln Arg Asp Val Asp
 115 120 125
 Ala Ser Pro Ser Pro Xaa Gln Xaa Arg Thr Ser Arg Gly Ser Xaa Met
 130 135 140
 Arg Arg Gly Ser Leu Trp Xaa
 145 150

<210> 6434

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

5684

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6434

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Xaa | Ser | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Ala | Cys | Phe | Ala | Phe | Tyr | Ala | Tyr | His | Tyr | Arg | Phe | Asn | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Ser | Ser | Leu | Ala | Leu | Val | Thr | Tyr | Trp | Leu | Phe | Ile | Gln | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Gly | Arg | Gln | Ala | Gly | Gly | Arg | Pro | Ala | Val | Pro | Phe | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Ala | Ala | Ala | Gly | Glu | Asp | Ala | Leu | Trp | Gly | Arg | Pro | Lys | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Val | Ala | Trp | Met | Val | Pro | Xaa | Gly | Leu | Xaa | Ser | Xaa | Ser | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Trp | Val | Val | Lys | Gly | Gly | Pro |
| | | | | | | | 100 |

<210> 6435

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6435

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Ala | Cys | Gly | Ala | Gly | Gly | Gly | Ala | Pro | Arg | Gly | Ser | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Arg | Ala | Ala | Gly | Leu | Asp | Gly | Ala | Leu | Gly | Lys | Ala | Leu | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gln | Lys | Tyr | Asp | Arg | Gln | Leu | Arg | Leu | Trp | Gly | Asp | His | Gly | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

5686

Thr Gln Asn Ile Leu Lys Cys Tyr Cys Ile Pro
 85 90

<210> 6438

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6438

Xaa Leu Met Lys Asp Gln Phe Tyr Ala Gln Ser Ser Ala Ser Gln Arg
 1 5 10 15

Arg Leu Pro Cys Leu Ala Val Gly Gly Ser Gly Tyr Ala Pro Glu Gln
 20 25 30

Leu Ser Gly Phe Trp Leu Ser Trp Cys Pro Arg Gly Thr Gly Ser Leu
 35 40 45

Leu Ser Gly Gly Trp Gly Phe Met Pro Arg Asp Asp Arg Leu Gly Cys
 50 55 60

Gly Val Ala Gly Ala Gln Thr Gln Met Pro Val Ala Gly Gly Pro Gln
 65 70 75 80

Ser Gly Leu Gly Leu Pro Ser Gly Pro Phe Pro Gln Leu His Cys Cys
 85 90 95

Pro Arg Glu Pro Arg Ser Pro Gly Val Lys Asp Arg Gly Gly Arg Gly
 100 105 110

Gln Ala

<210> 6439

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

5687

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6439

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Xaa | Xaa | Thr | Leu | Xaa | Ala | Ser | Pro | Ser | Arg | Gly | Arg | Leu | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Gln | Gly | Thr | Cys | Leu | Gly | Arg | Cys | Glu | Ser | Pro | Leu | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Pro | Cys | Pro | Asn | Arg | Trp | Ser | Cys | Cys | Leu | Glu | Ser | Glu | Glu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Cys | Pro | Cys | Phe | Gly | Pro | Gly | Pro | Ala | Pro | Ala | Ser | Asp | Arg | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6440

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6440

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Gly | Leu | Lys | His | Leu | Trp | Lys | Pro | Ala | Val | Glu | Ala | Tyr | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Leu | Cys | Met | Phe | Glu | Glu | Asn | Tyr | Pro | Glu | Thr | Leu | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Val | Val | Lys | Ala | Pro | Lys | Leu | Phe | Pro | Val | Ala | Tyr | Asn | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Pro | Phe | Leu | Ser | Glu | Asp | Thr | Arg | Lys | Lys | Ile | Met | Val | Leu |
| | 50 | | | | | | 55 | | | | 60 | | | | |

5689

His Leu Ala Pro Cys
115

<210> 6442

<211> 70

<212> PRT

<213> Homo sapiens

<220>

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5690

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<400> 6442

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Ser | Gly | Xaa | Tyr | Val | Val | Ile | Glu | Val | Lys | Val | Ala | Xaa | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Ile | Xaa | Ile | Thr | Cys | Xaa | Xaa | Tyr | Leu | Met | Thr | Xaa | Tyr | Gln |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ala | Pro | Pro | Ser | Pro | Gln | Tyr | Arg | Xaa | Ile | Ile | Cys | Met | Gly | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Asn | Gly | Leu | Pro | Leu | Xaa | Tyr | Gln | Xaa | Xaa | Leu | Xaa | Ala | Leu |
| | | 50 | | | | 55 | | | | | | 60 | | | |

5691

Xaa Pro Asn Asp Tyr Thr
65 70

<210> 6443

<211> 80

<212> PRT

<213> Homo sapiens

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5692

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<400> 6443

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 1 5 10 15

Arg Glu Arg Xaa Gly Xaa Xaa Phe Ser Gln Pro Gly Arg Ser Xaa Xaa
 20 25 30

Gly Ala Phe Xaa Met Cys Lys Gly Gly Val Gln Ala Pro Gly Gly Val
 35 40 45

Leu Ala Val Ser Phe Phe Leu Xaa Gly Asp Gly Xaa Gly Val Arg Xaa
 50 55 60

Gly Ala Asp Ala Leu Ala Cys Glu Xaa Glu Leu Glu Lys Cys Arg Cys
 65 70 75 80

<210> 6444

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6444

Lys Glu Leu Glu Leu Tyr Lys Glu Glu Leu Gln Thr Lys Pro Ala Leu
 1 5 10 15

Leu Ala Val Asn Lys Met Asp Leu Pro Asp Ala Gln Asp Lys Phe His
 20 25 30

Glu Leu Met Ser Gln Leu Gln Asn Pro Lys Asp Phe Leu His Leu Phe
 35 40 45

Glu Lys Asn Met Ile Pro Glu Arg Thr Val Glu Phe Gln His Ile Ile
 50 55 60

Pro Ile Ser Ala Val Thr Gly Glu Gly Ile Glu Glu Leu Lys Asn Cys
 65 70 75 80

5693

Ile Arg Lys Ser Leu Asp Glu Gln Ala Asn Gln Glu Asn Asp Ala Leu
 85 90 95
 His Lys Lys Gln Leu Leu Asn Leu Trp Ile Ser Asp Thr Met Ser Ser
 100 105 110
 Thr Glu Pro Pro Ser Lys His Ala Val Thr Thr Ser Lys Met Asp Ile
 115 120 125
 Ile

<210> 6445

<211> 135

<212> PRT

<213> Homo sapiens

<220>

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5694

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<400> 6445
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Xaa Xaa Trp Tyr Ala
1 5 10 15
Cys Arg Tyr Arg Ala Gly Ile Xaa Gly Ser Thr His Ala Ser Ala Gly
20 25 30
Glu Arg Pro Phe Glu Cys Ile Glu Cys Gly Lys Ala Phe Ser Asn Gly
35 40 45
Ser Xaa Leu Ala Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Xaa
50 55 60

5695

Val Xaa Asn Val Xaa Xaa Lys Ala Phe Ser His Arg Gly Tyr Leu Ile
65 70 75 80

Val His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu
85 90 95

Cys Xaa Lys Ala Phe Xaa Gln Tyr Ala His Leu Ala Gln His Gln Arg
100 105 110

Val His Thr Gly Glu Xaa Pro Tyr Glu Cys Lys Val Leu Xaa Glu Ser
115 120 125

Leu Gln Xaa Asn Cys Ile Pro
130 135

<210> 6446

<211> 138

<212> PRT

<213> Homo sapiens

<220>

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5696

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5697

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5698

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<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6446

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Trp | Leu | Pro | Pro | Lys | Phe | Pro | Xaa | Lys | Arg | Xaa | Gly | Xaa | Leu | Ile |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Ile | Xaa | Xaa | Pro | Xaa | Xaa | Xaa | Xaa | Tyr |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Ala | Trp | Xaa | Xaa | Pro | Xaa | Trp | Asn | Xaa | Pro | Xaa | Phe | Cys | Pro |
| | | 35 | | | | 40 | | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Asn | Val | Leu | Leu | Ala | Xaa | Asn | Leu | Ser | Pro | Arg | Pro | Leu | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Val | Pro | Pro | Xaa | Xaa | Val | Gly | Gly | Asn | Leu | Val | Ala | Ile | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ala | Asn | Leu | Lys | Ser | Val | Asn | Leu | Val | Ala | Asn | Phe | Asn | Thr |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Val | Leu | Val | Gln | Ile | Ser | Ile | Met | Val | Val | Phe | Ile | Phe | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Gln | Gly | Leu | His | Lys | Xaa | Xaa | Xaa | Leu | Ala | Pro | Ser | Gly | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Arg | Leu | Ser | Ala | Arg | Thr | Arg | Thr |
| | 130 | | | | | 135 | | | |

<210> 6447

5699

<211> 197

<212> PRT

<213> Homo sapiens

<220>

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<222> (141)

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<221> SITE

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<222> (164)

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<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6447

Ala Asp Ala Trp Val Leu Val Val Phe Lys Ala Pro Arg Ala Asp Ser

1

5

10

15

His Gly Pro Gly Cys Arg Pro Pro Leu Cys Pro Gly Leu Val Ala Tyr

20

25

30

5700

Val Asp Leu Asp Glu Arg Ala Ile Asp Ala Leu Arg Glu Phe Asn Glu
 35 40 45
 Glu Gly Ala Leu Ser Val Leu Gln Gln Phe Lys Glu Ser Asp Leu Ser
 50 55 60
 His Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr
 65 70 75 80
 Arg Gln Arg Glu Lys Gln Gly Ser Lys Val Gln Glu Ser Thr Lys Gly
 85 90 95
 Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr
 100 105 110
 Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Ser Pro Asp
 115 120 125
 Ser Val Tyr Ser Gly Val Gln Pro Gly Ile Gly Thr Xaa Val Phe Val
 130 135 140
 Gly Lys Ile Pro Arg Asp Leu Tyr Glu Asp Glu Leu Val Pro Leu Phe
 145 150 155 160
 Glu Xaa Ala Xaa Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu
 165 170 175
 Ser Gly Arg Ile Xaa Gly Met His Leu Ser Pro Ser Xaa Xaa Lys Glu
 180 185 190
 Xaa Xaa Arg Lys Pro
 195

<210> 6448

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6448

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu
 1 5 10 15
 Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
 20 25 30
 Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
 35 40 45
 Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Cys Leu Pro Trp Met

5701

50

55

60

Trp

65

<210> 6449

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (36)

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<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6449

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Trp | His | Glu | Ala | Thr | Pro | Thr | Gly | Gly | Gly | Xaa | Met | Ala | Arg | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Lys | Pro | Thr | Leu | Val | Ile | Leu | Xaa | Ile | Lys | Arg | Ala | Gly | Arg | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Trp | Xaa | Pro | Asn | Glu | Asn | Lys | Val | Ala | Val | Gly | Asn | Gly | Ser |
| | | | 35 | | | | | 40 | | | | | 45 | | |

5702

Xaa Glu Xaa Ser Ile Trp Tyr Phe Gln Gln Gly Glu
 50 55 60

<210> 6450

<211> 82

<212> PRT

<213> Homo sapiens

<220>

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<400> 6450

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 1 5 10 15

Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp Thr
 20 25 30

Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Val Arg Cys
 35 40 45

Ile His Lys Asn Asn Ile Met Ile Met Ala Ala Ile Phe Leu Ser Thr
 50 55 60

Tyr Ser Thr Ala Asp Thr Lys Cys Ile His His Met His Ala Leu Thr
 65 70 75 80

His Ser

<210> 6451

<211> 164

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

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<220>

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<222> (11)

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5703

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<220>
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5704

<400> 6451

Xaa His His Leu Tyr Arg Ala Tyr Ser Phe Xaa Met Gly Cys Trp Pro
 1 5 10 15

Lys Asn Gly Leu Leu Xaa Met Asn Lys Gly Leu Ser Leu Gln His Ile
 20 25 30

Gly Arg Pro His Thr Gly Ile Asp Asp Cys Lys Lys His Cys Xaa His
 35 40 45

His Glu Xaa Thr Arg Leu Ser Arg Leu His Leu Gln Ala Asp Ile Xaa
 50 55 60

Xaa Val Leu Ile Gly Pro Arg Gln Asp Gly Ala Arg Gln Gly Xaa Cys
 65 70 75 80

Leu Ala His Pro Lys Ser Ser Ser Pro Ser Pro Xaa Gly Lys Lys Glu
 85 90 95

Asn Gly Ile Leu Cys Val Gln Asn Val Pro Xaa Ala Cys Xaa Leu Cys
 100 105 110

Pro Trp Arg Trp Leu Phe Pro Cys Lys Gly Xaa Ala Leu Gly Pro Ser
 115 120 125

Gly Thr Lys Leu Phe Ser Pro His Pro Thr Leu Ile Ser Pro Ser Ile
 130 135 140

Thr Pro Pro Leu Arg Ala Gly Leu Gly Glu Pro Gly Ser Pro Leu Ser
 145 150 155 160

Leu Phe Thr Gly

<210> 6452

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6452

Val Val Ser Lys Val Cys Val Trp Pro Gly Val His Pro Leu Pro Ser
 1 5 10 15

Ser Pro Ala Pro Glu His Ser Cys Ser Ala Arg Pro His Ser Ser Ala

5705

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| | 20 | | 25 | | 30 |
| Leu | Leu | Pro | Ile | Pro | Thr |
| | 35 | | | 40 | |
| | | | | | 45 |
| Ala | His | Val | Asp | Trp | Glu |
| | 50 | | | 55 | |
| | | | | | 60 |
| Ala | Xaa | Ala | Val | Phe | Ser |
| | 65 | | | 70 | |
| | | | | | 75 |
| | | | | | 80 |
| Gly | Cys | Phe | Pro | Ala | Arg |
| | | | 85 | | |
| | | | | 90 | |
| | | | | | 95 |
| Arg | Gly | Leu | Glu | Gly | Trp |
| | | 100 | | | |
| | | | | 105 | |

<210> 6453

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5706

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6453

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Lys | Gly | Leu | Glu | Gly | Pro | Leu | Asp | Leu | Ile | Asn | Tyr | Ile | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Gln | Gln | Asp | Gly | Lys | Leu | Pro | Phe | Val | Pro | Pro | Glu | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ile | Met | Gly | Val | Ser | Lys | Tyr | Gly | Ile | Lys | Val | Ser | Thr | Ser | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Asp | Val | Leu | His | Arg | His | Ala | Leu | Tyr | Leu | Ile | Ile | Arg | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Tyr | Asp | Asp | Gly | Leu | Gly | Ala | Gly | Lys | Ser | Leu | Leu | Ala | Leu |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Thr | Asp | Ala | Ser | Xaa | Glu | Glu | Tyr | Arg | Leu | Trp | Val | Tyr | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Xaa | Xaa | Gly | Thr | Xaa | Thr | Ser | His | Leu | Xaa | Gly | Xaa | Ile | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

Arg Phe

<210> 6454

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5707

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6454

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Pro | Gly | Lys | Pro | Trp | Ser | Pro | Ser | Pro | Gln | Pro | Pro | Pro |
| 1 | | | | 5 | | | | 10 | | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | His | Arg | Ser | Ser | Pro | Trp | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser |
| | | | 20 | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Thr | Arg | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Arg | Phe | Leu | Gly | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Pro | Gly | Cys | Ser | Tyr | Ser | Pro | Gln | Xaa | Ser | Thr | Pro | Ser | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Xaa | Xaa | Leu | Thr | Val | Pro | Ser | Gln | Lys | Leu | Gly | Asp | Gln | Lys | Leu | |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6455

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6455

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Phe | Arg | Gly | Pro | Lys | Asp | Arg | Ala | Arg | Lys | Leu | Ala | Glu | Val |
| 1 | | | | 5 | | | | | 10 | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | His | Glu | Lys | Val | Gly | Gln | Xaa | Pro | Cys | Cys | Val | Arg | Leu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5708

Gln Ala Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys
 35 40 45
 Gly Pro Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro
 50 55 60
 Glu Ala Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala
 65 70 75 80
 His Leu His Ser Gln Gly Leu Val His Leu Asp Xaa Gln Ala Cys Gln
 85 90 95
 His Leu Pro Gly Ala Pro Gly Pro Leu Gln Ala Gly
 100 105

<210> 6456

<211> 21

<212> PRT

<213> Homo sapiens

<400> 6456

Gly Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser
 1 5 10 15
 Ile Thr His Ile Gly
 20

<210> 6457

<211> 128

<212> PRT

<213> Homo sapiens

<400> 6457

Arg Arg Ala Met Ala Asp Glu Glu Leu Glu Ala Leu Arg Arg Gln Arg
 1 5 10 15
 Leu Ala Glu Leu Gln Ala Lys His Gly Asp Pro Gly Asp Ala Ala Gln
 20 25 30
 Gln Glu Ala Lys His Arg Glu Ala Glu Met Arg Asn Ser Ile Leu Ala
 35 40 45
 Gln Val Leu Asp Gln Ser Ala Arg Ala Arg Leu Ser Asn Leu Ala Leu
 50 55 60
 Val Lys Pro Glu Lys Thr Lys Ala Val Glu Asn Tyr Leu Ile Gln Met

5709

| | | | | | | |
|---|---|----|-----|----|-----|----|
| 65 | | 70 | | 75 | | 80 |
| Ala Arg Tyr Gly | Gln Leu Ser Glu Lys Val Ser Glu Gln Gly Leu Ile | | | | | |
| | 85 | | 90 | | 95 | |
| Glu Ile Leu Lys Lys Val Ser Gln Gln Thr Glu Lys Thr Thr Thr Val | | | | | | |
| | 100 | | 105 | | 110 | |
| Lys Val Ser Val Pro Arg Cys Leu Trp Gln Met Lys Arg Trp Ile Leu | | | | | | |
| | 115 | | 120 | | 125 | |

<210> 6458

<211> 163

<212> PRT

<213> Homo sapiens

<400> 6458

| | |
|---|---|
| Glu Val Thr Thr | Phe Gln Leu Ala Val Leu Phe Ala Trp Asn Gln Arg |
| 1 | 5 10 15 |
| Pro Arg Glu Lys Ile Ser Phe Glu Asn Leu Lys Leu Ala Thr Glu Leu | |
| | 20 25 30 |
| Pro Asp Ala Glu Leu Arg Arg Thr Leu Trp Ser Leu Val Ala Phe Pro | |
| | 35 40 45 |
| Lys Leu Lys Arg Gln Val Leu Leu Tyr Glu Pro Gln Val Asn Ser Pro | |
| | 50 55 60 |
| Lys Asp Phe Thr Glu Gly Thr Leu Phe Ser Val Asn Gln Glu Phe Ser | |
| 65 | 70 75 80 |
| Leu Ile Lys Asn Ala Lys Val Gln Lys Arg Gly Lys Ile Asn Leu Ile | |
| | 85 90 95 |
| Gly Arg Leu Gln Leu Thr Thr Glu Arg Met Arg Glu Glu Glu Asn Glu | |
| | 100 105 110 |
| Gly Ile Val Gln Leu Arg Ile Leu Arg Thr Gln Glu Ala Ile Ile Gln | |
| | 115 120 125 |
| Ile Met Lys Met Arg Lys Lys Ile Ser Asn Ala Gln Leu Gln Thr Glu | |
| | 130 135 140 |
| Leu Val Glu Ile Leu Lys Asn Met Phe Leu Pro Gln Lys Glu Met Ile | |
| 145 | 150 155 160 |

5710

Lys Val Gln

<210> 6459

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6459

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Asp | Arg | Leu | Arg | Glu | Glu | Arg | Ala | His | Ala | Leu | Lys | Thr | Lys | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Ala | Gln | Thr | Ala | Thr | Ala | Ser | Ser | Ala | Ala | Val | Gly | Ser | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Pro | Glu | Ala | Glu | Gln | Ala | Trp | Pro | Gln | Ser | Ser | Gly | Glu | Glu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Leu | Gln | Leu | Ala | Leu | Ala | Met | Ser | Lys | Glu | Glu | Ala | Asp |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Pro | Pro | Ser | Cys | Gly | Pro | Glu | Asp | Asp | Ala | Gln | Leu | Gln | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Leu | Ser | Arg | Glu | Glu | His | Asp | Lys | Glu | Glu | Arg | Ile | Arg | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Asp | Leu | Arg | Leu | Gln | Met | Ala | Ile | Glu | Glu | Ser | Lys | Arg | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Gly | Lys | Glu | Glu | Ser | Ser | Leu | Met | Asp | Leu | Ala | Asp | Val | Phe |
| | | | 115 | | | | | 120 | | | | | 125 | | |

5711

Thr Gly Pro Ala Ser Ala Arg Pro Gln Thr Pro Gly Gly Ala His Thr
 130 135 140

His Gly Leu Xaa Pro Ser His Gly Leu Pro Asn Leu Asp Pro Trp Gly
 145 150 155 160

Gly Pro Pro Val Pro Ser Xaa Ala Xaa Ser Pro Gly Glu Gly Ser
 165 170 175

<210> 6460

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6460

Ala Xaa Ala Ser Asp Leu Asn Asp Ile Tyr Glu Glu Glu Pro Phe Asn
 1 5 10 15

Phe Gln Met Val Tyr Asn Glu Phe Gln Lys Phe Val Gln Arg Lys Ala
 20 25 30

His Ser Val Tyr Asn Phe Glu Lys Pro Val Val Met Lys Ala Phe Glu
 35 40 45

His Leu Gln Gln Leu Glu Leu Ile Lys Pro Met Glu Arg Thr Ser Gly
 50 55 60

Asn Ser Gln Arg Glu Ser Ser
 65 70

<210> 6461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5712

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6461

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Pro | Asn | Ser | Ala | Arg | Val | Trp | Thr | Asn | Pro | Gln | Ile | Lys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Thr | Glu | Lys | Asp | Glu | Gly | Gln | Glu | Glu | Cys | Ser | Phe | Leu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Met | Gln | Lys | Asp | Arg | Arg | Lys | Leu | Lys | Arg | Phe | Gly | Ala | Asn |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Thr | Ile | Gly | Tyr | Ala | Ile | Tyr | Asn | Cys | Pro | Asn | Lys | Asn | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Asn | Lys | Asn | Pro | Pro | Asn | Pro | Xaa | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | |

<210> 6462

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

5713

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6462

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Thr | Xaa | Xaa | Gly | Lys | Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg | Pro | Lys | Ala | Leu | Lys | Arg | Gly | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Cys | Phe | Ile | Asp | Thr | Arg | Ser | Ala | Ala | Glu | Ser | Glu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Pro | Phe | Gly | Leu | Ile | Lys | Gly | His | Ala | Tyr | Ser | Val | Thr | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Gln | Val | Ser | Phe | Arg | Gly | Gln | Arg | Ile | Glu | Leu | Ile | Arg | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Pro | Trp | Gly | Gln | Val | Glu | Trp | Asn | Gly | Ser | Trp | Ser | Asp | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Glu | Trp | Arg | Ser | Val | Val | Gln | Leu | Ser | Xaa | Ser | Val | Cys | Val |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Leu | Xaa | Trp | Met | Met | Gly | Asn | Ser | Gly | Trp | His | Leu | Arg | Thr | |
| | | 115 | | | | | 120 | | | | | 125 | | | |

<210> 6463

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6463

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Thr | Leu | Gln | Gly | Asp | Ala | Leu | Ser | Gln | Ala | Asp | Val | Asn | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

5714

Lys Met Pro Arg Asn Asn Gln Leu Leu His Phe Ala Phe Arg Glu Asp
20 25 30

Lys Gln Trp Lys Leu Gln Gln Ile Gln Asp Ala Arg Asn His Val Ser
35 40 45

Gln Ala Ile Tyr Leu Leu Thr Ser Arg Asp Gln Ser Tyr Gln Phe Lys
50 55 60

Thr Gly Ala Glu Val Leu Lys Leu Met Asp Ala Val Met Leu Gln Leu
65 70 75 80

Thr Arg Ala Arg Asn Arg Leu Thr Thr Pro Ala Thr Leu Thr Leu Pro
85 90 95

Glu Ile Ala Ala Ser Gly Leu Thr Arg Met Phe Ala Pro Ala Leu Pro
100 105 110

Ser Asp Leu Leu Val Asn Val Tyr Ile Asn Leu Asn Lys Leu Cys Leu
115 120 125

Thr Val Tyr Gln Leu Xaa Ala Leu Gln Pro Asn Phe Thr Lys Asn Phe
130 135 140

Ala Xaa Trp Gly Arg Gly Ala Ala
145 150

<210> 6464

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5715

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE .

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6464

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Arg | Xaa | Met | Ala | Val | Leu | Ser | Xaa | Glu | Tyr | Gly | Phe | Val | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Gly | Ala | Ala | Ser | Phe | Xaa | Met | Val | Xaa | Xaa | Leu | Ala | Xaa | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Lys | Ala | Arg | Lys | Lys | Tyr | Lys | Xaa | Glu | Trp | Thr | Leu | Pro | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Ser | His | Thr | Gln | Phe | Leu | Phe | Phe | Tyr |
| | 50 | | | | | 55 | | | | |

<210> 6465

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

5716

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

5718

Ile Leu Lys Gly Thr Ser Thr Cys Asp Lys Asp Val
35 40

<210> 6467

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

5719

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6467

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Thr | Thr | Xaa | His | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | Asp | Ala | Trp | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Met | Gln | Leu | Asp | Arg | Ala | Ser | Ser | Ser | Leu | Tyr | Val | Ala | Phe | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Val | Ile | Lys | Val | Pro | Leu | Gly | Arg | Cys | Glu | Arg | His | Gly | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Lys | Lys | Thr | Cys | Ile | Ala | Xaa | Arg | Asp | Pro | Tyr | Cys | Gly | Trp | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Gly | Gly | Ala | Cys | Ser | His | Xaa | Ser | Pro | Asn | Ser | Arg | Leu | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Glu | Gln | Asp | Ile | Glu | His | Gly | Asn | Thr | Asp | Gly | Leu | Gly | Asp | Cys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Asn | Xaa | Phe | Val | Ala | Leu | Asn | Gly | His | Ser | Ser | Xaa | Leu | Leu | Pro |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Thr | Thr | Ser | Asp | Ser | Thr | Ala | Gln | Glu | Gly | Tyr | Glu | Thr | Xaa |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Met | Leu | Asp | Trp | Lys | His | Xaa | Xaa | Asp | Ser | Xaa | Asp | Ser | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

5720

Asp Pro Leu Gly Ala Arg Xaa Xaa His Asn His Gln Arg Gln Glu Gly
 165 170 175

Ser

<210> 6468

<211> 99

<212> PRT

<213> Homo sapiens

<400> 6468

Met Gly Ala Val Gln Gln Phe Asn Leu Asp Val Ile Gln Cys Glu Leu
 1 5 10 15

Phe Ala Ser Ser Glu Pro Val Pro Gly Phe Gln Gly Asp Thr Leu Gln
 20 25 30

Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu Asp Leu Phe Met Val Trp
 35 40 45

Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly Gln Pro Ala Ser Lys Tyr
 50 55 60

Leu Arg Val Asn Pro Asn Thr Ala Leu Thr Leu Leu Glu Lys Met Lys
 65 70 75 80

Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala Gln Phe Arg Lys Asn Asp
 85 90 95

Arg Asp Lys

<210> 6469

<211> 30

<212> PRT

<213> Homo sapiens

<400> 6469

Ile Gln Val Ser Val Leu Thr Asp Gln Val Glu Ala Gln Gly Glu Lys
 1 5 10 15

Ile Arg Asp Leu Glu Phe Cys Leu Lys Ser Thr Glu Arg Ser
 20 25 30

5721

<210> 6470

<211> 116

<212> PRT

<213> Homo sapiens

<400> 6470

Lys Leu Pro Leu Lys Ala Lys Met Gly Lys Glu Lys Thr His Ile Asn
 1 5 10 15

Ile Val Val Ile Gly His Val Asp Ser Gly Lys Ser Thr Thr Thr Gly
 20 25 30

His Leu Ile Tyr Lys Cys Gly Gly Ile Asp Lys Arg Thr Ile Glu Lys
 35 40 45

Phe Glu Lys Glu Ala Ala Glu Met Gly Lys Gly Ser Phe Lys Tyr Ala
 50 55 60

Trp Val Leu Asp Lys Leu Lys Ala Glu Arg Glu Arg Gly Ile Thr Ile
 65 70 75 80

Asp Ile Ser Leu Trp Lys Phe Glu Thr Ser Lys Tyr Tyr Val Thr Ile
 85 90 95

Ile Asp Ala Pro Gly His Arg Asp Phe Ile Lys Asn Met Ile Thr Gly
 100 105 110

Thr Ser Gln Ala
 115

<210> 6471

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6471

Glu Lys Pro Tyr Gly Ile Val Glu Lys Lys Ser Arg Ile Phe Pro Gly
 1 5 10 15

Asp Thr Ile Leu Glu Thr Gly Glu Val Ile Pro Pro Met Lys Glu Phe
 20 25 30

Pro Asp Gln His His
 35

<210> 6472

<211> 89

5723

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6473

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Gln | Arg | Ala | Val | Tyr | Asp | Glu | Gln | Gly | Thr | Val | Asp | Glu | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Val | Leu | Thr | Gln | Asp | Arg | Asp | Trp | Glu | Ala | Tyr | Trp | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Lys | Lys | Ile | Ser | Leu | Glu | Asp | Ile | Gln | Ala | Phe | Glu | Lys | Thr |
| | | 35 | | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | Gly | Ser | Glu | Glu | Glu | Leu | Ala | Asp | Ile | Lys | Gln | Ala | Tyr | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Lys | Gly | Asp | Met | Asp | Gln | Ile | Met | Glu | Ser | Val | Leu | Cys | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Thr | Glu | Glu | Pro | Arg | Met | Lys | Xaa | Tyr | His | Ser | Ala | Ser | Tyr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6474

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

5724

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6474

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Ser | Thr | Leu | His | Leu | Val | Leu | Arg | Leu | Arg | Gly | Gly | Met | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Val | Lys | Thr | Leu | Thr | Gly | Lys | Thr | Ile | Thr | Leu | Glu | Xaa | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Asp | Thr | Ile | Glu | Asn | Val | Glu | Ala | Lys | Ile | Gln | Asp | Lys | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Pro | Asp | Gln | Xaa | Xaa | Leu | Ile | Phe | Ala | Gly | Lys | Gln | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Gly | Arg | Xaa | Leu | Ser | Asp | Tyr | His | Ile | Gln | Xaa | Asp | Pro | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Thr | Trp | Cys | Ser | Val | Ser | Xaa | Val | Gly | Cys | Lys | Ser | Ser | Xaa | Arg |
| | | | 85 | | | | | | 90 | | | | | 95 | |

Pro Asp Trp

<210> 6475

5725

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6475

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Leu | Val | Arg | Leu | Gln | Val | Pro | Gly | Arg | Asn | Ser | Arg | Val | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Val | Arg | Gly | Ser | Glu | Leu | Ser | Gly | Xaa | Ile | Ser | Ser | Ala | Cys |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Xaa | Glu | Xaa | Asn | Met | Glu | Arg | Arg | Xaa | Ile | Thr | Ile | Ser | Lys | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Tyr | Ser | Xaa | His | Ser | Ser | Leu | Ala | Ser | Lys | Xaa | Asp | Val | Glu | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

5726

<210> 6476

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6476

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Phe | Leu | Ala | Ser | Gly | Pro | Tyr | Leu | Thr | His | Gln | Gln | Lys | Val | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Tyr | Lys | Arg | Ala | Leu | Arg | His | Leu | Glu | Ser | Trp | Cys | Val | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Lys | Tyr | Arg | Tyr | Phe | Ala | Cys | Leu | Met | Arg | Ala | Arg | Phe | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | His | Lys | Asn | Glu | Lys | Asp | Met | Ala | Lys | Ala | Thr | Gln | Leu | Xaa | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Xaa | Gly | Lys | Asn | Ser | Gly | Thr | Ala | Xaa | Xaa | Thr | Ala | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Leu Pro

5727

<210> 6477

<211> 48

<212> PRT

<213> Homo sapiens

<400> 6477

Ala Leu Leu Leu Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly Ile Gly
1 5 10 15

Lys Val Ser Ser Phe Glu Glu Lys Met Ile Ser Asp Ala Ile Pro Glu
20 25 30

Leu Lys Ala Ser Ile Lys Lys Gly Glu Asp Phe Val Lys Thr Leu Lys
35 40 45

<210> 6478

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6478

Arg Val Leu Ala Asp Ile Thr Lys Ser Leu Thr Asn Pro Thr Pro Ile
1 5 10 15

Gln Gln Gln Leu Arg Arg Phe Thr Glu His Asn Ser Ser Pro Asn Val
20 25 30

Ser Gly Ser Leu Ser Ser Gly Leu Gln Lys Ile Phe Xaa Asp Pro Thr
35 40 45

5728

Asp Ser Asp Leu His Lys Leu Lys Ser Pro Ser Gln Asp Asn Thr Asp
 50 55 60
 Ser Tyr Phe Arg Gly Lys Thr Leu Leu Leu Val Gln Gln Ala Ser Ser
 65 70 75 80
 Gln Ser Met Thr Tyr Ser Glu Lys Asp Glu Arg Glu Ser Ser Leu Pro
 85 90 95
 Asn Gly Arg Ser Val Ser Leu Met Asp Leu Gln Xaa Thr His Ala Ala
 100 105 110
 Gln Val Glu His Ala Ser Val Met Leu Asp Val Pro Ile Arg Leu Thr
 115 120 125
 Gly Ser Gln Leu Ser Ile Thr Gln Val Ala Ser Ile Lys Gln Leu Arg
 130 135 140
 Glu Thr Gln Ser Thr Xaa Gln Ser Ala Pro Gln Val Arg Arg
 145 150 155

<210> 6479

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

5729

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6479

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Xaa | Leu | Ser | Xaa | Ala | Phe | Xaa | Xaa | Glu | Asp | Pro | Gly | Leu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Ala | Cys | Asp | Xaa | Ile | His | Ser | Ser | Ile | Val | Ala | Thr | Tyr | Xaa |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Xaa | Thr | Gly | Arg | Arg | Ser | Thr | Thr | Ser | Thr | Thr | Gly | Lys | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Pro | Asn | Leu | Xaa | Arg | Leu | Ala | Ala | His | Ala | Pro | Xaa | Xaa | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Trp | Arg | Asn | Lys | Gly |
| 65 | | | | |

<210> 6480

5730

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6480

Ser Gly His Ser Asn Tyr Met Val Asp Trp Tyr Gln Gln Arg Pro Gly

1

5

10

15

Lys Gly Pro Arg Phe Val Met Arg Val Gly Thr Ser Gly Val Val Gly

20

25

30

Pro Arg Gly Asp Gly Ile Pro Asp Arg Phe Ser Val Leu Ala Ser Gly

35

40

45

Leu Ser Arg Asp Leu Thr Ile Thr Asn Ile Gln Glu Arg Xaa

50

55

60

<210> 6481

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5731

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6481

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Arg | Val | Ser | Leu | Leu | Xaa | Asn | Pro | Pro | Thr | Val | Gly | Gly | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Lys | Leu | Thr | Asp | Val | His | Pro | Xaa | Ile | Leu | Glu | Pro | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Ser | Thr | Thr | His | Pro | Xaa | Phe | Tyr | Pro | Asn | Xaa | Phe | Gly | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Thr | Leu | Leu | Xaa | Leu | Phe | Pro | Pro | Xaa | Tyr | Pro | Leu |
| | 50 | | | | | 55 | | | | | 60 | | |

<210> 6482

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6482

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Gly | Pro | Asp | Pro | Ala | Gly | Lys | Glu | Gly | Glu | Gly | Gly | Gln | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Ser | Arg | Glu | His | Ala | Gly | Asp | Pro | Trp | Phe | Gln | Ser | Pro | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Ala | Thr | Lys | Pro | Ala | Leu | Lys | Ser | Glu | Glu | Lys | Thr | Pro | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Pro | Gly | Asp | Gly | Arg | Lys | Val | Thr | Phe | Phe | Glu | Pro | Gly | Ser |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Glu | Asn | Gly | Thr | Ser | Asn | Lys | Glu | Asp | Glu | Phe | Arg | Met | Pro |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Ser | His | Gln | Gln | Leu | Pro | Ala | Gly | Ile | Leu | Pro | Met | Val | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

5732

Glu Val Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp
100 105 110

Phe Thr Arg Ala Ala Pro
115

<210> 6483
<211> 96
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5733

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6483

Xaa Xaa Gly Xaa Pro Ala Gly Thr Arg Ser Gly Ile Pro Gly Ser Thr

1

5

10

15

His Ala Pro Phe Xaa Xaa Xaa Gly Ala Ala Leu Xaa Ala Gly Gly Ile

20

25

30

Trp Xaa Xaa Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu

5734

| | | |
|---|----|----|
| 35 | 40 | 45 |
| Xaa Xaa Ser Ala Met Gln Xaa Val Asn Val Gly Tyr Xaa Leu Ile Ala | | |
| 50 | 55 | 60 |
| Ala Gly Val Val Val Phe Ala Leu Gly Xaa Leu Gly Xaa Tyr Gly Ala | | |
| 65 | 70 | 75 |
| Lys Thr Glu Ser Lys Xaa Ala Leu Val Thr Tyr Phe Tyr Ile Leu Leu | | |
| 85 | 90 | 95 |

<210> 6484

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6484

| |
|--|
| Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val Ala Tyr |
| 1 5 10 15 |

| |
|---|
| Ile Val Glu Gly Asp Phe Thr Gly Val Leu Leu Pro Glu Leu Val Val |
| 20 25 30 |

| |
|---|
| Ser Ile Val Leu Leu Leu Ser Lys Asn Ala Gly Leu Met Gln Glu Ala |
| 35 40 45 |

| |
|---|
| Gly Ala Val Pro Xaa Leu Gly Gly Leu Leu Glu His Leu Asp Arg Phe |
| 50 55 60 |

| |
|--|
| Asn His Leu Ala Pro Gly Lys Glu Arg Asp Asp His Glu Glu Leu Ala |
| 65 70 75 80 |

Cys Leu Ala

<210> 6485

<211> 94

<212> PRT

<213> Homo sapiens

5736

Lys Xaa Cys Pro Lys Tyr Thr Thr Phe Leu Leu Pro Xaa Xaa
85 90

<210> 6486

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6486

Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg
1 5 10 15

Asp Ser Glu Ile Met Gln Xaa Lys Gln Lys Lys Ala Asn Glu Lys Lys
20 25 30

Glu Glu Pro Lys
35

<210> 6487

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6487

Arg Arg Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln
1 5 10 15

Arg Glu Leu Thr Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val
20 25 30

Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Xaa Arg Lys Gln
35 40 45

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys
50 55 60

5737

Lys Glu Glu Pro Lys
65

<210> 6488

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6488

Arg Lys Xaa Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys Arg
1 5 10 15

Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His Leu Phe
20 25 30

Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys Val Pro Ala
35 40 45

Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val Ser Asn Phe Ala
50 55 60

Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser Pro Ala Ala Leu Pro
65 70 75 80

Gln Ser Ser Glu Glu Ala Val Ser Gly Leu Phe Phe Val Ala Pro Ser
85 90 95

Ile Leu Phe Lys Arg Asn Ala Ala Val Ile Asp Pro Leu Gln Phe His
100 105 110

Met Gly Val Glu Arg Leu Glu
115

<210> 6489

<211> 88

<212> PRT

<213> Homo sapiens

<400> 6489

Gln Arg Phe Phe Gly Glu Val Leu Leu Tyr Phe Gln Met Ser Gln Ser
1 5 10 15

5738

Asp Asp Arg Asp Ser Lys Arg Asp Ser Leu Glu Glu Gly Glu Leu Arg
 20 25 30
 Asp His Arg Met Glu Ile Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu
 35 40 45
 Asp Ser Met Glu Asp Ile Ser Pro Gln Leu Pro Leu Leu Thr Arg Thr
 50 55 60
 Ser Cys Pro Ser Cys Leu His Leu Ser Val Pro Leu Glu Trp Met Ala
 65 70 75 80
 Gly Gly Glu Val Glu Ala Asp Ser
 85

<210> 6490

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6490

Glu Leu Ser Ser Val Val Ser Ser Ser Gly Thr Glu Gly Ala Ser Ser
 1 5 10 15
 Leu Glu Lys Lys Glu Val Pro Gly Val Asp Phe Ser Ile Thr Gln Phe
 20 25 30
 Val Arg Asn Leu Gly Leu Glu His Leu Met Asp Ile Phe Xaa Arg Glu
 35 40 45
 Gln Ile Thr Leu Asp Val Leu Val Glu Met Gly His Lys Glu Leu Lys
 50 55 60
 Glu Ile Gly Ile Asn Ala Tyr Gly His Arg His Lys Leu Ile Lys Gly
 65 70 75 80
 Val Glu Arg Leu Ile Ser Gly Gln Gln Gly Leu Asn Pro Tyr Leu Thr
 85 90 95
 Leu Asn Thr Ser Gly Ser Gly Thr Ile Leu Ile Asp Leu Ser Pro Asp
 100 105 110
 Asp Lys Glu Phe Gln Ser Val Glu Glu Glu Met Gln Ser Thr Val Arg
 115 120 125

5739

Glu His Arg Asp Gly Gly His Ala Gly Gly Ile Phe Asn Arg Tyr Asn
 130 135 140

Ile Leu Lys Ile Gln Lys Val Cys Asn
 145 150

<210> 6491

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6491

Val Gln Ser Gly Ala Glu Xaa Lys Xaa Ser Gly Glu Ser Leu Ser Ile
 1 5 10 15

Ser Cys Gln Val Ser Gly Tyr Thr Leu Thr Ser Tyr Trp Ile Asn Trp
 20 25 30

5740

Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Arg Leu Asp
35 40 45

Pro Ser Asp Ser Phe Ile Asn Tyr Asn Pro Ser Phe Glu Gly His Ile
50 55 60

Ser Ile Ser Ala Asp Lys Phe Ile Ser Thr Ala Tyr Leu Lys Trp Asn
65 70 75 80

Thr Leu Glu Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Leu Ser Gly
85 90 95

Arg Gln Gln Leu Val Pro Val Tyr Trp Gly Gln Gly Thr Gln Val Xaa
100 105 110

Arg Leu Leu Xaa Asn Pro Xaa Gln Xaa Gln Arg Leu Ser Ala Glu Pro
115 120 125

Leu

<210> 6492

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

5741

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

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<220>

<221> SITE

<222> (68)

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<222> (73)

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<220>

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<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

5742

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6492

Leu Xaa Lys Phe Ser Val Arg Phe Lys Glu Asn Ser Val Ala Val Lys
 1 5 10 15

Val Val Gln Gly Pro Ala Gly Gly Asp Asn Xaa Lys Xaa Arg Tyr Lys
 20 25 30

Lys Lys Gly Ser His Cys Leu Xaa Val Thr Xaa Gln Leu Gly Gly Gly
 35 40 45

Thr Met Gln Arg Trp Xaa Xaa Leu Pro Pro Glu Pro Ala Leu Ile Xaa
 50 55 60

Leu Xaa Pro Xaa Phe Phe Gly Gly Xaa Phe Xaa Xaa Xaa Xaa Gly
 65 70 75 80

Gly Xaa Gly Xaa Gly Val
 85

<210> 6493

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

5743

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6493

Phe His Lys Ala Tyr Ala Xaa Leu Val Xaa Ser Trp His Ser Leu Thr
1 5 10 15

Pro Val Ser Ser Asp His Xaa Phe Ser Xaa Trp Arg Ile Tyr His
20 25 30

<210> 6494

<211> 135

<212> PRT

<213> Homo sapiens

<400> 6494

Trp Glu Arg Leu Pro Ser Leu Ala Leu Lys Ala Ser Ser Leu Asp Leu
1 5 10 15

Ala Thr Ala Ala Leu Thr Val Met Leu Asp Ser Val Thr His Ser Thr
20 25 30

Phe Leu Pro Asn Ala Ser Phe Cys Asp Pro Leu Met Ser Trp Thr Asp
35 40 45

Leu Phe Ser Asn Glu Glu Tyr Tyr Pro Ala Phe Glu His Gln Thr Ala
50 55 60

Cys Asp Ser Tyr Trp Thr Ser Val His Pro Glu Tyr Trp Thr Lys Arg
65 70 75 80

His Val Trp Glu Trp Leu Gln Phe Cys Cys Asp Gln Tyr Lys Leu Asp
85 90 95

Thr Asn Cys Ile Ser Phe Cys Asn Phe Asn Ile Ser Gly Leu Gln Leu
100 105 110

Cys Ser Met Thr Gln Glu Glu Phe Val Glu Ala Ala Gly Leu Cys Gly
115 120 125

Glu Tyr Leu Tyr Phe Gln Phe

5744

130

135

<210> 6495

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6495

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Leu | Asn | Lys | Met | Asp | Gly | Ser | Arg | Lys | Glu | Glu | Glu | Glu | Asp |
| | | 35 | | | | | 40 | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Phe | Thr | Asn | Ile | Ser | Leu | Ala | Asp | Asp | Ile | Asp | His | Ser | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Leu | Tyr | Pro | Arg | Pro | Lys | Ser | Leu | Leu | Pro | Lys | Met | Met | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Met | Asp | Asp | Leu | Ser | Ala | Arg | Val | Asp | Ala | Val | Lys | Glu | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Lys | Leu | Lys | Ser | Glu | Asn | Gln | Val | Leu | Xaa | Gln | Tyr | Ile | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Met | Ser | Ala | Ser | Ser | Val | Phe | Gln | Thr | Thr | Asp | Thr | Lys | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | |
|-----|-----|-----|
| Lys | Arg | Lys |
| | | 130 |

<210> 6496

<211> 44

5745

<212> PRT

<213> Homo sapiens

<400> 6496

Ile Asn Ile His Lys Cys Tyr Phe Leu Phe Leu Tyr Phe Ile Phe Phe

1

5

10

15

Ser Pro Phe Gln Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn

20

25

30

Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu

35

40

<210> 6497

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5746

<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6497
Trp Xaa Glu Ser Gly Leu Pro Ala Val Ala Ala Thr Leu Lys Leu Xaa
1 5 10 15
Xaa Pro Pro Gly Cys Met Asn Ser Ala Arg Gly Leu Leu Arg Thr Leu
20 25 30
His Gly Ala Arg His Met Val Arg Asp Ala Pro Glu Ile Pro Gln Gly
35 40 45
Gly Ser Pro Ala Xaa Cys Ser Xaa Phe Arg Pro Asn Pro Glu Leu Thr
50 55 60

5747

Glu Ala Leu Thr Thr Ser Phe Val Arg Arg Leu Phe Trp Gly Ser Xaa
 65 70 75 80

Gly Ala Xaa Thr Pro Leu Ala Glu Xaa Leu Arg Thr Xaa Ser Ala Ser
 85 90 95

Ser Ser Asp Pro Val Ser Ala Pro Xaa Ser Leu Thr Ala Glu Xaa Xaa
 100 105 110

Xaa Gln Pro Ser Ser Tyr Xaa Gly Thr Pro Arg Phe Leu Arg Ile Pro
 115 120 125

Glu

<210> 6498

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6498

Pro Arg Val Arg Glu Asp Glu Gln Phe Pro Ser Ile Pro Ala Leu Val
 1 5 10 15

His Ser Tyr Met Thr Gly Arg Arg Pro Leu Ser Gln Ala Thr Gly Ala
 20 25 30

Val Val Ser Arg Pro Val Thr Trp Gln Gly Pro Leu Arg Arg Ser Phe
 35 40 45

Ser Glu Asp Thr Leu Met Asp Gly Pro Ala Arg Ile Glu Pro Ile Arg
 50 55 60

Ala Arg Lys Trp Ser Asn Ser Gln Pro Ala Asp Leu Ala His Met Gly
 65 70 75 80

Gln Ser Arg Glu Asp Pro Ala Gly Met Glu Ala Ser Thr Met Pro Ile
 85 90 95

Ser Ala Leu Pro Arg Thr Ser Ser
 100

<210> 6499

<211> 190

<212> PRT

<213> Homo sapiens

5748

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6499

Ala Ser Gly Thr Trp Asn Ala Pro Ala Gly Trp Cys Pro Gly Val Leu

1

5

10

15

Ser Pro Leu Leu Pro Thr Ser Ala Gly Pro Val Ser Ser Cys Ala Gln

20

25

30

Cys Gly Pro Val Ser Ala Pro Ala Ala Leu Ser Pro Pro His Ala Gly

35

40

45

5749

Ser Arg Pro Gly His Arg Ala Val Xaa Cys Phe Pro Thr Ala Ala Gly
 50 55 60
 Thr Ala Arg His Thr Gln Gly Leu Gly Arg Ala Gly Gly His Thr Ala
 65 70 75 80
 Trp Leu Ser Cys Ser Trp Ser Pro Ala Ser Pro Arg Arg Pro Gly Gly
 85 90 95
 Ser Ile Ser Gln Glu Ala Arg Ser Pro Pro Gly Gly Trp Ala Gln Pro
 100 105 110
 Arg Gln Met Asp Glu Lys Thr Xaa Lys Ala Xaa Glu Met Ala Leu Ser
 115 120 125
 Leu Thr Arg Ala Val Ala Gly Gly Asp Glu Gln Val Ala Met Lys Cys
 130 135 140
 Ala Ile Trp Leu Ala Glu Gln Arg Val Pro Leu Ser Val Gln Leu Lys
 145 150 155 160
 Pro Glu Val Ser Pro Thr Gln Asp Ile Arg Phe Leu Met Xaa Gln Asn
 165 170 175
 Gly His Ser Ser Xaa Ile Gln Pro Xaa Xaa Xaa Gln Gly Gly
 180 185 190

<210> 6500

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5750

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6500

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Pro | Ile | Leu | Asn | Pro | Phe | Xaa | Ile | Arg | Leu | Thr | Ile | Gly | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Ala | Xaa | Lys | Gln | Ala | Gly | Gln | Lys | Lys | Lys | Gln | Gly | His | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Ala | Ala | Xaa | Lys | Ala | Ala | Leu | Ile | Tyr | Thr | Cys | Thr | Val | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Xaa | Met | Xaa | Asp | Pro | Xaa | Thr | Xaa | Lys | Gln | His | Phe | Glu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | His | Pro | Lys | Thr | Pro |
| | | | 85 | | |

5751

<210> 6501

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6501

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Met | Arg | Val | Lys | Asp | Pro | Thr | Lys | Ala | Leu | Pro | Glu | Lys | Ala | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Lys | Arg | Pro | Thr | Val | Pro | His | Asp | Glu | Asp | Ser | Ser | Asp | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Val | Gly | Leu | Thr | Cys | Gln | His | Val | Ser | His | Ala | Ile | Ser | Val |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | His | Val | Lys | Arg | Ala | Ile | Ala | Glu | Asn | Leu | Trp | Ser | Val | Cys | Ser |
| | | | 50 | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Cys | Leu | Lys | Glu | Arg | Gly | Phe | Tyr | Asp | Gly | Gln | Leu | Val | Leu | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Ile | Trp | Leu | Cys | Leu | Lys | Cys | Gly | Phe | Gln | Gly | Cys | Gly | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Xaa | Ser | Gln | His | Ser |
| | | | | | | 100 |

<210> 6502

<211> 92

<212> PRT

<213> Homo sapiens

<400> 6502

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Lys | Val | Gly | Ala | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Thr | Pro | Ser | Phe | Ser | Ser | Tyr | Tyr | Lys | Gly | Gly | Phe | Glu | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Met | Ser | Arg | Arg | Glu | Ala | Gly | Leu | Ile | Leu | Gly | Val | Ser | Pro | Ser |
| | | | 35 | | | | 40 | | | | | 45 | | | |

5752

Ala Gly Lys Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu
 50 55 60

Asn His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn
 65 70 75 80

Glu Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
 85 90

<210> 6503

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6503

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Glu Ser Met Asn
 1 5 10 15

Glu Ser His Pro Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp
 20 25 30

Arg Asp Ser His Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu
 35 40 45

Ser Trp Lys Trp Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg
 50 55 60

Ile Leu Arg Phe Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val
 65 70 75 80

Val Met His Pro Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly
 85 90 95

Phe Ser Met Glu Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile
 100 105 110

Ser Leu Leu Gly Met Ala Ser Phe Tyr Phe Asp Leu Cys Ser Arg Gly
 115 120 125

Arg Phe Leu Leu His Ser Tyr Xaa Ser Ser Arg Gly Leu Asp Arg Lys
 130 135 140

Ser Ile Arg

5753

145

<210> 6504

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6504

Glu Gly Asn Arg Ser Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala

1

5

10

15

Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr

20

25

30

Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu

35

40

45

Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala

50

55

60

Asn Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr

65

70

75

80

Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp

85

90

95

Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu

100

105

110

Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Ser

115

120

125

Pro Glu Val Trp Arg Tyr Ser Gly Gly

130

135

<210> 6505

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5754

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6505

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Leu | Xaa | Ser | Xaa | Gly | Gly | Lys | Lys | Arg | Pro | Leu | Gly | Phe | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Pro | Phe | Gly | Pro | Lys | Gly | Phe | Asn | Pro | Arg | Gly | Xaa | Pro | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Asn | Phe | Ser | Pro | Gly | Gly | Gly | Xaa | Arg | Asn | Pro | Gln | Thr | Xaa |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Phe | Pro | Arg | Gly | Pro | Gly | Gly | Xaa | Pro | Glu | Thr | Xaa | Phe | Gly | Lys |
| | | | | | | 55 | | | | | 60 | | | | |

5755

Lys Pro Pro Ile Gly Gly Pro Arg Ala Leu Pro Val Ser Gln Arg Glu
 65 70 75 80
 Thr Phe Ser Pro Thr Pro Lys Arg Thr Trp Phe Trp Gly Phe Leu Asn
 85 90 95
 Pro Gly Xaa Pro Thr Lys Thr Arg Val Cys Pro Xaa Ala
 100 105

<210> 6506

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6506

Ala Ala Ala Glu His Arg Arg Gly Arg Lys Lys Asp Glu Val Arg Glu
 1 5 10 15

Gly Ala Gly Phe Leu Glu Pro Gln Gly Ser Thr Glu Leu Ser Lys Xaa
 20 25 30

Val Pro Val Asn Trp Glu Pro Pro Gln Pro Leu Pro Phe Pro Lys Tyr
 35 40 45

Leu Arg Cys Tyr Arg Cys Leu Leu Glu Thr Lys Glu Leu Gly Cys Leu
 50 55 60

Leu Gly Ser Asp Ile Cys Leu Thr Pro Ala Gly Ser Ser Cys Ile Thr
 65 70 75 80

Leu His Lys Lys Asn Ser Ser Gly Ser Asp Val Met Val Ser Asp Cys
 85 90 95

Arg Ser Lys Glu Gln Met Ser Asp Cys Ser Asn Thr Arg Thr Ser Pro
 100 105 110

Val Ser Gly Phe Trp Ile Phe Ser Gln Tyr Cys Phe Leu Asp Phe Cys
 115 120 125

5756

Asn Asp Pro Xaa Asn
130

<210> 6507

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6507

Ser Cys Thr Met Pro Ser Ser Ile Ile Thr Leu Lys Asn Gly Ile Gln
1 5 10 15

Asn Met Leu Gln Phe Tyr Ile Pro Glu Val Glu Gly Val Glu Gln Val
20 25 30

Met Asp Asp Glu Ser Asp Glu Lys Glu Ala Asn Ser Pro
35 40 45

<210> 6508

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6508

Ser Ala Pro Lys Ala Pro Ala Thr Pro Gly Ala Gln Xaa Ala Pro Asp
1 5 10 15

Val Arg Leu Leu Tyr Val Leu Ala Ile Ala Ala Leu Gly Gly Leu Cys
20 25 30

Leu Ile Leu Ala Ser Ser Leu Leu Tyr Val Ala Cys Leu Arg Glu Gly
35 40 45

Arg Arg Gly Arg Arg Arg Lys Tyr Ser Leu Gly Arg Ala Asn Xaa Gly
50 55 60

Arg Arg Ile Cys Gly Ala Thr Ala

5758

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6510

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Arg | Ala | Ser | Ala | Leu | Lys | Gln | Tyr | Xaa | Arg | Ser | Leu | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Leu | Met | Thr | Tyr | Glu | Leu | His | Gly | Asp | Phe | Ile | Val | Pro | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Gly | Ser | Pro | Glu | Ser | Xaa | Val | Asn | Ala | Ile | His | Phe | Leu | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Lys | Leu | Pro | Glu | Lys | Asn | Lys | Glu | Met | Leu | Asp | Ile | Leu | Val | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Thr | Asn | Val | Xaa | Asn | Xaa | Ser | Lys | Gln | Asn | Xaa | Xaa | Thr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asn | Leu | Gly | Val | Val | Phe | Gly | Pro | Thr | Leu | Met | Arg | Pro | Gln | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Val | Ala | Ala | Leu | Met | Asp | Phe | Glu | Val | Ser | Xaa | Tyr | Cys | Cys |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | |
|-----|-----|-----|
| Gly | Lys | Ser |
| | | 115 |

<210> 6511

<211> 129

<212> PRT

<213> Homo. sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

5759

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6511

Thr Gly Asn Lys Met Gln Asp Pro Asn Ala Asp Thr Glu Trp Asn Asp
 1 5 10 15

Ile Leu Arg Lys Lys Gly Ile Leu Pro Pro Lys Glu Ser Leu Lys Glu
 20 25 30

Leu Glu Glu Glu Ala Glu Glu Glu Gln Arg Ile Leu Gln Gln Ser Val
 35 40 45

Val Lys Thr Tyr Glu Asp Met Thr Leu Glu Glu Leu Glu Asp His Glu
 50 55 60

Asp Glu Phe Asn Glu Glu Asp Glu Arg Ala Ile Glu Met Tyr Arg Arg
 65 70 75 80

Arg Arg Leu Ala Glu Trp Lys Ala Thr Lys Leu Lys Asn Lys Phe Gly
 85 90 95

Glu Val Leu Glu Ile Ser Xaa Lys Asp Tyr Val Gln Glu Val Thr Lys
 100 105 110

Ala Gly Glu Gly Leu Xaa Val Ile Leu His Leu Tyr Asn Gln Gly Ile
 115 120 125

Pro

<210> 6512

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

5760

<400> 6512

Phe Glu Lys Tyr Met Leu Thr Val Gln Tyr Phe Ser Ile Ile Phe Pro
 1 5 10 15

Leu Phe Tyr Arg Ala Asn Val Lys Pro Arg Asn Ser Thr Pro Pro Ser
 20 25 30

Leu Ala Arg Asn Pro Ala Pro Gly Val Leu Thr Asn Lys Arg Lys Thr
 35 40 45

Tyr Thr Glu Ser Tyr Ile Ala Arg Pro Asp Gly Asp Cys Ala Ser Ser
 50 55 60

Leu Asn Gly Gly Asn Ile Lys Gly Ile Glu Gly His Ser Pro Gly Asn
 65 70 75 80

Leu Pro Lys Phe Cys His Glu Cys Gly Thr Lys Tyr Pro Val Glu Xaa
 85 90 95

Ala Lys Phe Cys Xaa Glu Cys Gly Ile Arg Arg Met Ile Leu
 100 105 110

<210> 6513

<211> 75

<212> PRT

<213> Homo sapiens

<400> 6513

Val Pro Ala Ala Gly Thr Pro Arg Ala Asn Gln Pro Gly Phe Arg Lys
 1 5 10 15

His Leu Gly Leu Leu Glu Lys Lys Lys Asp Tyr Lys Leu Arg Ala Asp
 20 25 30

Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Arg Ala Leu Arg Lys Lys Ala
 35 40 45

Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met Thr Arg Val Lys
 50 55 60

Leu Gln Asp Gly Phe His Val Ile Glu Gly Asp
 65 70 75

<210> 6514

<211> 70

<212> PRT

<213> Homo sapiens

5761

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6514

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Phe | Glu | Xaa | Xaa | Ala | Pro | Gly | Xaa | Tyr | Lys | Phe | Tyr | Leu | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Ser | Leu | Pro | Gln | Ser | Xaa | Pro | Val | Leu | Lys | Val | Thr | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Asp | Leu | Gln | Lys | Ser | Leu | Asn | Tyr | Trp | Cys | Tyr | Leu | Leu | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Ile | Tyr | Glu | Lys | Tyr | Tyr | Lys | Ser | Tyr | Arg | Ala | Cys | Leu | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Lys | Asn | Pro | Cys |
| 65 | | | | 70 | |

<210> 6515

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5762

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6515

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Tyr | Pro | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Val | Glu | Leu | Asn | Glu | Leu | Leu | Leu | Asp | Lys | Asn | Gln | Glu | Pro |
| | | | 20 | | | | | | 25 | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Trp | Arg | Glu | Thr | Ala | Arg | Trp | Ile | Lys | Phe | Glu | Glu | Asp | Val | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Ala | His | Asp | Ser | Glu | Ala | Lys | Val | Ala | Ser | Leu | Arg | Gly | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Gly | Cys | Ala | Ser | Thr | Gln | Val | Glu | Ser | Xaa | Asn | Asn | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Gln | Lys | Gln | Val | Arg | Leu | Pro | Glu | Ser | Arg | Leu | Thr | Pro | Trp |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Xaa | Phe | Ile | Gly | Xaa | Glu | Lys | Glu | Glu | Arg | Asp | Arg | Leu | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Xaa | Glu | Glu | Leu | Asn | Gln | Xaa |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5764

<400> 6517

Gly Gly Xaa Xaa Gly Xaa Pro Leu Tyr Leu His Leu Leu Met Ser Leu
 1 5 10 15
 His Arg Ala Arg Leu Glu Ser Ser Ser Thr Gly Ser Ser Phe Pro Ala
 20 25 30
 Asp Ser Ala Lys Pro Val Pro Leu Ala Val Val Ser Leu Asp Ser Arg
 35 40 45

<210> 6518

<211> 31

<212> PRT

<213> Homo sapiens

<400> 6518

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
 1 5 10 15
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Gln Asn Gln Trp
 20 25 30

<210> 6519

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6519

Ala Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
 1 5 10 15
 Val Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
 20 25 30

5765

Ala Arg Gly Tyr Thr Gly Asn Gly
 35 40

<210> 6520

<211> 59

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6520

Xaa Xaa His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Ser Ala Arg Ala Lys Asp Thr Asn Leu Val Phe Pro Gly
 35 40 45

Ile Glu Gln Gln Ala Phe Gln Asp Cys His Pro
 50 55

<210> 6521

<211> 66

<212> PRT

<213> Homo sapiens

<220>

5766

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<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6521

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Xaa | Xaa | Leu | Thr | Arg | Ile | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ser | Ser | Thr | Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Cys | Arg | Asn | Ser | Ala | Arg | Ala | Leu | Ser | Arg | Pro | Phe | Ser | Xaa | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Ala | Xaa | Thr | Ala | Pro | Arg | Xaa | Arg | Trp | Asn | Ala | Arg | Thr |
| | 50 | | | | | 55 | | | | 60 | | | | |

| | |
|-----|-----|
| Xaa | Gly |
| 65 | |

<210> 6522

<211> 41

<212> PRT

<213> Homo sapiens

5767

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6522

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Asn | Glu | Ser | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Xaa | Arg | Asp | Trp | Glu | Asn | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Xaa | Pro | Ser | Xaa | Xaa | Gly | Pro |
| | | | 35 | | | | 40 | |

<210> 6523

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

5768

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6523

Arg Xaa Gln Lys Leu Ala Xaa Pro Pro Gln Val Ala Ala Ala Leu Glu
1 5 10 15

Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Ala
20 25 30

Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile
35 40 45

Thr Ile His Trp Pro Ser Phe Xaa Asn Val Val Thr Gly Lys Thr Gln
50 55 60

Xaa Xaa Xaa Ile
65

<210> 6524

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5769

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6524

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Pro | Lys | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa | Glu | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Lys |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Pro | Xaa | Xaa | Xaa |
| | | | 35 |

<210> 6525

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6525

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Pro | Gly | Thr | Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Asn | Val | Val | Thr | Gly | Pro | Xaa | Xaa |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5770

20

25

30

Xaa

<210> 6526

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6526

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Gln | Xaa | Xaa | Xaa |
| | | | | | 50 |

<210> 6527

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

5771

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6527

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Pro | Leu | Arg | Lys | Val | Pro | Ser | Leu | Lys | Gly | Asn | Lys | Ser | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Thr | Ala | Val | Xaa | Val | Val | Leu | Gln | Leu | Val | Asp | Pro | Pro | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Asn | Ser | Val | Arg | Ala | Arg | Asp | Xaa | Pro | Met | Lys | Ser | Gly | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Phe | Ile | His | Trp | Lys | Cys | Cys | Val | Xaa | Ala | Xaa | Xaa | Lys | Xaa | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Thr | Ser | Glu | Glu |
| | 65 | | | |

<210> 6528

<211> 36

5772

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6528

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Xaa | Asp | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Glu | Thr | Xaa | Lys |
| | | | 35 |

<210> 6529

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6529

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Xaa | Lys | Arg | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Ala | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5773

Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val
 35 40 45

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Ile Pro
 50 55 60

Pro Lys Lys Xaa
 65

<210> 6530
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6530
 Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr
 1 5 10 15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa
 20 25 30

Asn

<210> 6531
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

5774

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6531

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Xaa | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Glu | Asn | Pro | Xaa |
| | | | 35 |

<210> 6532

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5775

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6532

Gly Xaa Ile Trp Xaa Xaa Ser Thr Lys Lys Trp Arg Phe Ala Leu Glu
1 5 10 15

Leu Val Asp Pro Pro Gly Cys Arg Asn Pro Ala Arg Ala Xaa Thr Arg
20 25 30

Gly Gly Pro Val Pro Xaa Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser
35 40 45

Leu Xaa Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro
50 55 60

<210> 6533

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5776

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6533

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Val | Ser | Ser | Xaa | Ile | Lys | Gly | Thr | Xaa | Gly | Pro | Ala | Pro | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Ala | Phe | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Arg | Ala | Xaa | Xaa | Gly | Gly | Ala | Arg | Phe | Pro | Ile | Arg | Pro | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Xaa

<210> 6534

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

5777

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6534

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa | Glu | Ser | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Leu | Asp | Trp | Glu | Asn | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Phe | Leu | Cys | Xaa | Phe | Xaa | Xaa |
| | | | 35 | | | | 40 | |

<210> 6535

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6535

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | | | 20 | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Glu | Asn | Pro | Lys |
| | | | 35 |

<210> 6536

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

5778

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6536
 Xaa Gly Thr Xaa Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr
 1 5 10 15
 Xaa Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 20 25 30
 Trp Glu Asn Pro Xaa Xaa Phe Pro
 35 40

<210> 6537
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

5779

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6537

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Pro | Xaa | Gly | Thr | Arg | Gly | Xaa | Arg | Arg | Ser | Ile | Ser | Ser |
| 1 | | | | 5 | | | | 10 | | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Pro | Gly | Leu | Gln | Glu | Phe | Gly | Thr | Ser | Gly | Pro | Arg | Gly | Gly |
| | | | 20 | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Pro | Ser | Ser | Xaa | Phe | Ser | Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Xaa | Trp | Glu | Asn | Pro | Cys | Leu | Leu |
| | 50 | | | | | 55 | | | | | 60 | | |

<210> 6538

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

5780

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<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (78)
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<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6538
Arg Arg Xaa Gly Glu Xaa Cys Ser Xaa Ile Asn Pro Gln Ile Xaa Gly
1 5 10 15
Lys Lys Ile Trp Ser Ser Thr Ala Val Ala Asp Ala Leu Xaa Leu Val
20 25 30
Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Gly Gly Ala
35 40 45
Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro
50 55 60
Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Gln Xaa Xaa Xaa Xaa Gly
65 70 75 80

<210> 6539
<211> 48
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

5781

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6539
Xaa Gly Xaa Glu Gly Tyr Ile Arg Leu Ala Xaa Gln Leu Thr Leu Xaa
1 5 10 15
Asn Gly Asn Lys Thr Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu
20 25 30
Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Xaa Xaa
35 40 45

<210> 6540
<211> 107
<212> PRT
<213> Homo sapiens

<220>

5782

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6540

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Ser | Pro | Gly | Cys | Arg | Asn | Ser | Ile | Ser | Ser | Leu | Ser | Ile | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Ser | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Ser | Glu | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg | Leu | Ala | Ala | Gln | Ser | Pro | Phe | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Gly | Val | Ile | Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu | Trp | Asp | Ala | Pro | Cys | Ser | Xaa | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ala | Xaa | Val | Xaa | Trp | Leu | Pro | Ala | Val |
| | | | 100 | | | | 105 | | | |

5783

<210> 6541

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6541

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Val | Xaa | Ala | Thr | Arg | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Arg | Asp | Phe | Gln | Val | Asp | Phe | Ser | Ala | Ser | Ser | Lys | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Cys | Phe | Phe | Ser | Gly | Leu | Thr | Leu | Cys | Gly | Phe | Phe | Phe | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Asn | Leu | Ile |
| | 65 | | |

<210> 6542

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5784

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6542
Thr Ala Ala Ala Ala Ala Xaa Glu Leu Gly Asp Xaa Pro Gly Cys Arg
1 5 10 15
Asn Ser Ile Ser Ser Leu Ser Ile Pro Ser Thr Ser Arg Gly Gly Pro
20 25 30

5785

Val Pro Asn Ser Pro Tyr Xaa Glu Ser Xaa Tyr Asn Ser Leu Ala Val
 35 40 45
 Gly Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Xaa Thr Gln Leu Asn
 50 55 60
 Arg Xaa Xaa Gly His Pro Pro Phe Xaa Xaa Trp Arg Asn Ser Glu Glu
 65 70 75 80
 Ala Arg Thr Xaa Arg Leu Pro Thr Xaa Ala Gln Pro Glu Trp Arg Met
 85 90 95
 Gly Arg Ala Leu Tyr Gly Ala Leu Ser Arg Gly Gly Cys Gly
 100 105 110

<210> 6543

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

5786

<220>
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<222> (140)
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<220>
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<222> (143)
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<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (149)
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<220>
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<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

5787

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6543

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Arg | Gly | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Glu | Phe | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Ala | Tyr | Ser | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Tyr | Tyr | Ser | Phe | Pro | Phe | Thr | Phe | Gly | Pro | Gly | Thr | Lys | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Lys | Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Phe | Tyr | Pro | Xaa | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Gln | Ser | Gly | Asn | Xaa | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Arg | Xaa | Thr | Ala | Ser | Ala | Ala | Pro | Asp | Gly | Glu | Gln | Ser | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Glu | His | Lys | Phe | Arg | Leu | Arg | Val | Xaa | Xaa | Gln | Gly | Xaa | Xaa |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Xaa | Lys | Xaa | Leu | Thr | Gly | Xaa | Xaa | Xaa | Gly | Glu | Xaa | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Phe | Ser | Xaa | Pro |
| | | | | 165 | |

<210> 6544

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

5788

<400> 6544

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Val Lys Ile Thr Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Tyr
 1             5             10             15

Cys Met Gln Ala Leu Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
          20             25             30

Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
      35             40             45

Pro Ser Asp Glu Xaa Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
      50             55             60

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
      65             70             75             80

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
          85             90             95

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
      100             105             110

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
      115             120             125

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
      130             135             140

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<210> 6545

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

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<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5789

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<222> (71)
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<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (102)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (118)
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<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5790

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6545

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Arg | Ile | Arg | His | Glu | Val | Leu | Arg | Gly | Pro | Leu | Leu | Gly | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ala | Val | Trp | Gly | Leu | Ala | Tyr | Ser | Ala | Xaa | His | Gln | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Cys | Ser | Ala | Xaa | Gly | Thr | Leu | Arg | Leu | Trp | Asn | Thr | Thr | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Pro | Ala | Leu | Xaa | Val | Phe | Asn | Asp | Thr | Lys | Glu | Leu | Gly | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Ser | Val | Asp | Leu | Xaa | Ser | Xaa | Asp | Pro | Ser | His | Xaa | Val | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Ser | Lys | Gly | Tyr | Thr | Asn | Ile | Phe | Asn | Met | Glu | Thr | Gln | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Leu | Thr | Leu | Xaa | Ser | Asn | Val | Ile | Gln | Xaa | Pro | Thr | Leu | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Xaa | Ile | Xaa | Xaa | Ile | Xaa | Leu | Leu | Leu | Phe | Arg | Ser | Thr | Ser |
| | | 115 | | | | | | 120 | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Leu | Lys | Xaa | Ala | Ile | Gln | Phe | Tyr | Xaa | Asn | Xaa | Ser | Gly | Lys |
| | | 130 | | | | | 135 | | | | 140 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Leu | His | Gly | Xaa | Pro | Leu | Lys | Leu | Phe | Gln | Phe |
| 145 | | | | | | 150 | | | | | 155 | |

5791

<210> 6546

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6546

Lys Trp Arg Leu Arg Ser Ala Pro Ala Glu Glu Gly Glu Ala Gly Gly
1 5 10 15

Val Ser Val Leu Pro Val Cys Ser Thr Ala Pro Ala Ser Arg Thr Pro
20 25 30

Pro Ala His Ala Asp Phe Pro Ser Ser Ala Arg Leu Ser Leu Val Leu
35 40 45

Val Cys Ala Pro His Ala Pro Gly Arg Leu Val Ser His Cys Pro Ala
50 55 60

Arg Leu Arg Trp Pro
65

<210> 6547

<211> 89

<212> PRT

<213> Homo sapiens

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5792

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<400> 6547

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Ala | Asp | Xaa | Xaa | Lys | Leu | Xaa | His | Gln | Glu | Arg | Thr | Gln | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Pro | Val | Gly | Xaa | Gly | Tyr | Phe | His | Leu | Leu | Asp | His |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Xaa | Ala | Xaa | Cys | Xaa | Ala | Asp | Phe | Arg | Gly | His | Trp | Val | Leu |
| | 35 | | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Phe | Gly | Phe | Thr | His | Cys | Pro | Asp | Ile | Cys | Pro | Gln | Gln | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Leu | Val | Gln | Val | Val | Arg | Glu | Leu | Xaa | Thr | Xaa | Leu | Val | Phe |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5793

65

70

75

80

Leu Gln Xaa Thr Cys Leu His His Cys
85

<210> 6548

<211> 61

<212> PRT

<213> Homo sapiens

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5794

<400> 6548

Gly Leu Xaa Phe Xaa Gly Met His Xaa Met Ala Xaa Thr His Trp Pro
1 5 10 15

Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala
20 25 30

Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa
35 40 45

Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val
50 55 60

<210> 6549

<211> 185

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5795

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Pro | Glu | Val | Met | Ser | His | Lys | Xaa | Xaa | Ser | Ala | Pro | Arg | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Xaa | Xaa | Phe | Leu | Pro | Arg | Lys | Arg | Xaa | Thr | Xaa | Xaa | Arg | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Xaa | Ile | Phe | Pro | Lys | Asp | Asp | Pro | Ser | Lys | Pro | Val | His | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Phe | Leu | Gly | Tyr | Lys | Ala | Gly | Met | Thr | His | Ile | Val | Xaa | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Arg | Pro | Gly | Ser | Xaa | Val | Asn | Xaa | Lys | Glu | Val | Val | Glu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Ile | Val | Glu | Thr | Pro | Pro | Met | Val | Val | Val | Gly | Ile | Val | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Met | Lys | Thr | Pro | Arg | Xaa | Leu | Arg | Thr | Phe | Xaa | Thr | Val | Phe | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | His | Ile | Ser | Asp | Glu | Cys | Xaa | Arg | Arg | Phe | Tyr | Xaa | Asn | Trp | Xaa |
| | | 115 | | | | | | 120 | | | | | 125 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Asn | Asn | Xaa | Ala | Phe | Thr | Xaa | Tyr | Cys | Xaa | Lys | Xaa | Gln | Asp |
| | | 130 | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Xaa | Xaa | Lys | Xaa | Leu | Gly | Glu | Xaa | Leu | Gln | Gln | His | Glu | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Pro | Val | Ile | Arg | Val | Ile | Ala | His | Xaa | Gln | Asp | Ser | Pro | Ala |
| | | | | 165 | | | | | 170 | | | | | | 175 |

5798

Ser Ser Ala Pro Xaa Lys Lys Ala Thr
180 185

<210> 6550

<211> 39

<212> PRT

<213> Homo sapiens

<220>

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<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6550

Ala Ala Val Gly Phe Phe Leu Gly Ile Val Trp Ser Gly Ala Gly Thr
1 5 10 15

Gln Leu Xaa Phe Gly Glu Arg Pro Ala Xaa Lys Met Ile Gly Xaa Asn
20 25 30

Ser Pro Leu Leu Val Gly Leu
35

<210> 6551

<211> 33

<212> PRT

<213> Homo sapiens

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<220>

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5799

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6551

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Lys | Ala | Asp | Ile | Thr | Trp | Glu | Leu | Pro | Asp | Lys | Xaa | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Xaa | Val | Gln | Ala | Arg | Xaa | Tyr | Gly | Asn | Xaa | Phe | Leu | Xaa |
| | | | | 20 | | | | 25 | | | | | | 30 | |

Pro

<210> 6552

<211> 82

<212> PRT

<213> Homo sapiens

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5800

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Cys Val Phe Gln Gln Ile Tyr His Asn Tyr Leu Met Cys Ile Ser Xaa
1 5 10 15

Xaa Tyr His Asn Tyr Val Met Cys Ile Ser Thr Ile Cys His Ser Xaa
20 25 30

Leu Ile Cys Xaa Ser Lys Xaa His Ala Val Leu Ala Leu His Xaa Asn
35 40 45

Xaa Glu Thr Ile Arg Asn His His Thr Xaa Glu Thr Leu Xaa Xaa Gln
50 55 60

5801

Cys Xaa Ile Ile Ser Glu Arg Lys Leu Leu Phe Cys His Leu Tyr Ile
 65 70 75 80

Phe Met

<210> 6553

<211> 130

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6553

Asn Pro Thr Ser Leu Leu Gly Xaa Phe Gly Tyr Arg Pro Pro Pro Ala
 1 5 10 15

Val Phe Trp Arg Ala Ala Ala Ile Gly Pro Tyr Ala Thr Leu Met Pro
 20 25 30

Val Gly Leu Gln Gln Gly Pro Gln Ser Asp Gln Glu Leu Glu Gln Ala
 35 40 45

Pro Gly Thr Ala Arg Arg Arg Gly Arg Leu Thr Lys His Thr Lys Phe
 50 55 60

Val Arg Asp Met Ile Arg Glu Val Cys Gly Phe Ala Pro Tyr Glu Arg
 65 70 75 80

Arg Ala Met Glu Leu Leu Lys Val Ser Lys Asp Lys Arg Ala Leu Lys
 85 90 95

Phe Ile Lys Lys Arg Val Gly Thr His Ile Arg Ala Lys Arg Lys Arg
 100 105 110

Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Ala Lys
 115 120 125

Lys Asp
 130

<210> 6554

<211> 79

<212> PRT

5802

<213> Homo sapiens

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<400> 6554

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| Ser | Arg | Arg | Ser | Xaa | Leu | Gly | Ala | Ala | Xaa | Xaa | Gln | Ser | Val | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Xaa | Glu | Xaa | Pro | Ser | Cys | Leu | Gly | Thr | Leu | Arg | Xaa | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Trp | Xaa | Thr | Asn | Arg | Phe | Xaa | Xaa | Leu | Xaa | Asn | Asp | Val | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Phe | Glu | Gly | Ala | Glu | Gly | Ser | Gln | Arg | Thr | Xaa | Lys | Lys | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Gly | Xaa | Arg | Arg | Leu | Xaa | Ala | Leu | Xaa | Ser | Ser | Cys | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | |

<210> 6555

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6555

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Asp | Arg | Val | Ser | Val | Pro | Met | Trp | Gly | Thr | Phe | Leu | Ser | Glu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Ser | Ile | Glu | Gly | Leu | Val | Gly | Arg | Tyr | Leu | Thr | Asn | Asn | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5804

Met Glu Arg Ile Pro Ile Leu Tyr Arg Asn Pro Leu Ile Ile Arg Pro
 35 40 45

Cys Gly Met Ile Ile Pro Ser Gly Ile Asn Leu Ser Phe Glu Arg Leu
 50 55 60

Ser Pro Ser Lys Gly
 65

<210> 6556

<211> 178

<212> PRT

<213> Homo sapiens

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<400> 6556

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 1 5 10 15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
 20 25 30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
 35 40 45

5805

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
 50 55 60
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65 70 75 80
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
 85 90 95
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
 100 105 110
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
 115 120 125
 Pro Val Ile Phe Gly His Glu Ala Ala Cys Asn Val Ala Pro Arg Gly
 130 135 140
 Val Tyr Xaa Cys Gly Asn Thr Thr Thr Thr Phe Gly Leu Thr Val Thr
 145 150 155 160
 Leu Ser Lys Asp Xaa Xaa Xaa Gly Xaa Phe Ala Phe Gly Thr Trp Cys
 165 170 175
 Pro Trp

<210> 6557

<211> 69

<212> PRT

<213> Homo sapiens

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5806

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<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6557

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Met | Thr | Val | Glu | Pro | Asn | Pro | Phe | Gln | Arg | Lys | Val | Leu | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Phe | Glu | Pro | Ala | Asp | Asn | Lys | Xaa | Leu | Leu | Arg | Ala | Thr | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Lys | Lys | Ile | Ser | Thr | Val | Val | Ser | Ser | Lys | Glu | Val | Asn | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Xaa | Ala | Tyr | Ser | Asn | Leu | Leu | Arg | Ala | Asn | Met | Asp | Gly | Xaa |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Lys | Xaa | Arg | Asp | Xaa |
| | 65 | | | |

<210> 6558

<211> 24

<212> PRT

<213> Homo sapiens

<400> 6558

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ile | Pro | Ser | Pro | Ala | Lys | Lys | Val | Pro | Arg | Leu | Pro | Ala | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Pro | Glu | Ser | Ser | Cys | His |
| | | | 20 | | | | |

<210> 6559

<211> 178

<212> PRT

<213> Homo sapiens

<220>

5807

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6559

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Leu | Met | Ser | Arg | Phe | Asn | Ala | Phe | Lys | Arg | Thr | Asn | Thr | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | His | Leu | Arg | Met | Ser | Lys | His | Thr | Asp | Ala | Ala | Glu | Glu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Glu | Lys | Lys | Gly | Cys | Ala | Gly | Val | Ile | Thr | Leu | Asn | Arg | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Leu | Asn | Ala | Leu | Thr | Leu | Asn | Met | Ile | Arg | Gln | Ile | Tyr | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Lys | Lys | Trp | Glu | Gln | Asp | Pro | Glu | Thr | Phe | Leu | Ile | Ile | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Ala | Gly | Gly | Lys | Ala | Phe | Cys | Ala | Gly | Gly | Asp | Ile | Arg | Val |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Glu | Ala | Glu | Lys | Ala | Lys | Gln | Lys | Ile | Ala | Pro | Val | Phe | Phe |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Glu | Tyr | Met | Leu | Asn | Asn | Ala | Val | Gly | Ser | Cys | Gln | Lys | Pro |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Ala | Leu | Ile | His | Gly | Ile | Thr | Met | Gly | Gly | Gly | Val | Gly | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

5808

Xaa Val His Gly Gln Phe Xaa Val Ala Thr Glu Lys Val Ser Phe Cys
 145 150 155 160

Tyr Ala Arg Asn Cys Asn Arg Thr Gly Pro Leu Met Xaa Gly Gly Xaa
 165 170 175

Xaa Phe

<210> 6560

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6560

Phe Gly Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu
 1 5 10 15

Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Ile Tyr Arg Ser
 20 25 30

Leu Leu Glu Gly Gln Glu Asp His Ser Gln Gln Phe Val Cys Leu Gln
 35 40 45

Gly Pro Leu Arg Gln Gln Ala Leu Gly Leu Leu Leu Ser Phe Gly Gly
 50 55 60

Cys Leu Leu Gly Arg Gly Met Gly Arg Lys Gly Pro Leu Pro Pro Ala
 65 70 75 80

Leu Leu Leu Thr Cys Gln
 85

<210> 6561

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

5809

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6561

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Tyr | Xaa | Gly | Xaa | Ala | Gly | Xaa | Pro | Ala | Gly | Thr | Gly | Pro | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Gly | Arg | Pro | Xaa | Arg | Pro | Xaa | Glu | Gln | Asn | Arg | Lys | Asp | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Trp | Phe | Thr | Ser | Arg | Thr | Glu | Glu | Leu | Asn | Arg | Glu | Val | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Thr | Glu | Gln | Leu | Gln | Met | Ser | Arg | Ser | Glu | Val | Thr | Asp | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Thr | Leu | Gln | Gly | Leu | Glu | Ile | Glu | Leu | Gln | Ser | Gln | Leu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Ala | Ala | Leu | Glu | Asp | Thr | Leu | Ala | Glu | Thr | Glu | Ala | Arg | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Gln | Leu | Ala | His | Ile | Gln | Ala | Leu | Ile | Ser | Gly | Ile | Glu | Ala |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Gly | Asp | Val | Arg | Ala | Asp | Ser | Glu | Arg | Gln | Asn | Gln | Glu | Tyr |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Leu | Met | Asp | Ile | Lys | Ser | Arg | Leu | Glu | Gln | Glu | Ile | Ala | Thr |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Leu | Leu | Glu | Gly | Gln | Glu | Asp | His | Tyr | Asn | Asn | Leu | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | |
|-----|-----|-----|-----|-----|
| Ala | Ser | Lys | Val | Leu |
| | | | | 165 |

5810

<210> 6562

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6562

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Xaa | Glu | Thr | Trp | Arg | Glu | Val | Tyr | Leu | Gln | Asp | Ser | Phe | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Val | Cys | Ile | Ser | Pro | Asn | Ala | Ser | Leu | Phe | Asp | Ala | Val | Ser |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ile | Arg | Asn | Lys | Ile | His | Arg | Leu | Pro | Val | Ile | Asp | Pro | Glu |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Asn | Thr | Leu | Tyr | Ile | Leu | Thr | His | Lys | Arg | Ile | Leu | Lys | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Leu | Phe | Ile | Thr | Glu | Phe | Pro | Lys | Pro | Glu | Phe | Met | Ser | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Glu | Lys | Leu | Pro | Xaa | Trp | Xaa | Leu | Cys | Gln | Tyr | Cys | Tyr | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Thr | Thr | Pro | Val | Tyr | Val | Ala | Leu | Gly | Ile | Phe | Val | Gln | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Ser | Ala | Leu | Pro | Val | Val | Asp | Glu | Lys | Gly | Arg | Val | Val | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5811

Ile Tyr Ser Lys Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr
 130 135 140
 Asn Asn Leu Asp Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His
 145 150 155 160
 Tyr Phe Glu Gly Val Leu Lys Cys Tyr Leu His Glu Thr Trp Arg Pro
 165 170 175
 Ser Leu Thr Gly
 180

<210> 6563

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6563

Asn Ser Ala Xaa Val Ala Arg Thr Ile Gly Ile Ser Val Asp Pro Arg
 1 5 10 15
 Arg Arg Asn Lys Ser Thr Glu Ser Xaa Gln Ala Asn Val Gln Xaa Leu
 20 25 30

5812

Lys Glu Tyr Arg Ser Lys Leu Ile Leu Phe Xaa Arg Xaa Pro Ser Ala
35 40 45

Pro Lys Lys Gly Asp Ser Ser Ala Glu Glu Leu Arg Thr Gly Pro Pro
50 55 60

Ser
65

<210> 6564

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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5813

<220>
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<220>
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<222> (36)
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<220>
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<222> (40)
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<220>
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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

5814

<400> 6564

```

His Arg Asn His Leu Gly Xaa Xaa His Gly Lys Ile Ser Ser Gly Gly
 1           5           10           15

Xaa Ser His Thr Xaa Xaa Ile Pro Met Xaa Leu Val Val Phe Xaa Pro
          20           25           30

Xaa Leu Cys Xaa Lys Met Gly Xaa Pro Tyr Cys Ile Ile Lys Gly Lys
          35           40           45

Xaa Xaa Leu Ala Thr Tyr Xaa Ser Thr Gly Ser Xaa Cys Thr Ile Val
          50           55           60

Arg Leu Xaa Thr Gly Val Leu Gly Thr Xaa Lys Gly Xaa Phe
 65           70           75

```

<210> 6565

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6565

```

Arg Thr Ala Val Met Pro Arg Glu Asp Arg Ala Thr Trp Lys Ser Asn
 1           5           10           15

Tyr Phe Leu Lys Ile Ile Gln Leu Leu Asp Asp Tyr Pro Lys Cys Phe
          20           25           30

Ile Val Gly Ala Asp Asn Val Gly Ser Lys Gln Met Gln Gln Ile Pro
          35           40           45

His Val Pro Ser Arg Glu Gly Leu Trp Cys
          50           55

```

<210> 6566

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

5815

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

5816

<400> 6566

Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp
 1 5 10 15

Arg Met Gln Xaa Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile
 20 25 30

Lys Ile Ile Ala Pro Pro Xaa Arg Lys Phe Ser Val Trp Asp Arg Xaa
 35 40 45

Xaa Pro Ser Trp Xaa Arg Cys Pro Pro Ser Asn Arg Phe Xaa Ser Ala
 50 55 60

Ser Xaa Asn Xaa Glu Xaa Ile Pro Gly Pro Ser His Pro Ser Thr Arg
 65 70 75 80

Lys Leu Leu Pro Xaa Gly Gly Xaa Asn Xaa Leu Ile Leu Arg Leu Gln
 85 90 95

Pro Phe Ser Phe Glu Lys Lys Pro
 100

<210> 6567

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6567

5817

Cys Asp Pro Pro Ala Lys Gly Cys Gln Gly Leu Phe His Tyr Gly Leu
 1 5 10 15
 Cys Val Leu Pro Phe Arg His Leu Arg Asn Ser Ser His Ala Gly Ala
 20 25 30
 Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly Ile Arg Arg Asn
 35 40 45
 Cys Gly Xaa Ser Gln Val Pro Arg Pro Xaa Xaa Gly Glu Pro Gly Xaa
 50 55 60
 Ser Leu Gly
 65

<210> 6568
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6568
 Pro Xaa Gln Lys Gly Asp Thr Gly Glu Pro Gly Leu Pro Gly Thr Lys
 1 5 10 15

5818

Gly Thr Arg Gly Pro Pro Gly Ala Ser Gly Tyr Pro Gly Asn Pro Gly
 20 25 30
 Leu Pro Gly Ile Pro Gly Gln Asp Gly Pro Pro Gly Pro Pro Gly Ile
 35 40 45
 Pro Gly Cys Asn Gly Thr Lys Gly Glu Arg Gly Pro Leu Gly Pro Pro
 50 55 60
 Gly Leu Pro Gly Phe Ala Gly Asn Pro Gly Pro Pro Gly Leu Pro Gly
 65 70 75 80
 Met Lys Gly Asp Pro Xaa Glu Ile Leu Gly His Val Pro Gly Met Leu
 85 90 95
 Leu Lys Gly Glu Arg Arg Phe Pro Glu Xaa Xaa Gly Leu Xaa Ala
 100 105 110

<210> 6569

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6569

Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu
 1 5 10 15

Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu
 20 25 30

5819

```

Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe
      35                40                45

Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala
      50                55                60

Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Xaa
      65                70                75                80

Pro Asp Ser Leu Tyr Xaa Pro Asn Xaa Xaa
      85                90

```

<210> 6570

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5820

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6570

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ala | Tyr | Leu | Phe | Gln | Ala | Ala | Gly | Ala | Xaa | Tyr | Val | Val | Leu | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | His | His | Glu | Gly | Phe | Thr | Asn | Trp | Xaa | Ser | Pro | Val | Ser | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Trp | Asn | Ser | Lys | Asp | Val | Gly | Pro | His | Xaa | Asp | Leu | Val | Gly | Glu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Thr | Ala | Leu | Arg | Lys | Arg | Asn | Xaa | Arg | Tyr | Gly | Leu | Tyr | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Leu | Glu | Trp | Xaa | His | Xaa | Leu | Tyr | Leu | Leu | Asp | Lys |
| 65 | | | | | 70 | | | | 75 | | | | |

<210> 6571

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

5821

<400> 6571

```

Asp Met Arg Pro Leu Ser Asn Lys Ala Ser Ala Leu Val Phe Phe Ser
 1           5           10           15
Cys Arg Thr Asp Met Pro Tyr Arg Tyr His Ser Ser Leu Gly Gln Leu
          20           25           30
Asn Phe Thr Gly Ser Val Ile Tyr Glu Ala Gln Asp Val Tyr Ser Gly
          35           40           45
Asp Ile Ile Ser Gly Leu Arg Asp Glu Thr Asn Phe Thr Val Ile Ile
          50           55           60
Asn Pro Ser Gly Val Val Met Trp Tyr Leu Tyr Pro Ile Lys Asn Trp
          65           70           75           80
Arg Cys Pro Ser Ser Glu Glu Leu Gly His Val Thr Gly Cys Gly Gly
          85           90           95
Thr Thr Glu Pro Arg Xaa Trp Xaa Leu Gly Met Pro Arg Ala Ser Xaa
          100          105          110
Glu Val Leu Cys Ser Pro Gly Cys Ser Val Thr Asp Pro Ser Ser Gln
          115          120          125
Xaa His Leu Thr Ala Ser Leu Ser Phe Gln Xaa Lys Pro Leu Glu Ile
          130          135          140
Phe Gly His Phe Leu Trp Leu Leu Ala
          145          150

```

<210> 6572

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5822

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6572

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | His | Ser | Xaa | Tyr | Arg | Ala | Ile | Gly | Val | Ser | Lys | Xaa | Cys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Asp | Val | Arg | Tyr | Leu | His | Phe | Leu | Glu | Gly | Thr | Arg | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Trp | Leu | Glu | Pro | Leu | Leu | Xaa | Asn | Gln | Thr | Val | Met | Ser | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Phe | Trp | Phe | Arg | His | Arg | Pro | Gln | Glu | Ser | Phe | Ser | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | His | Arg | Gln | Val | Pro | Val | Xaa | Ala | Pro | Arg | Leu | Ser | Pro | Ile |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| His | Glu | Gln | Gln | Val | Thr |
| | | | | 85 | |

<210> 6573

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6573

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Gln | Ser | His | Tyr | Gln | Leu | Glu | Leu | Gln | Cys | Cys | Ile | Asp | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Val | Thr | Asp | Pro | Leu | His | Arg | Xaa | Gln | Lys | Leu | Gln | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5823

Lys His Lys Ser Ile Thr Glu Ala Leu Arg Arg Gln Glu Gln Asn Ile
35 40 45

Lys Ser Phe Glu Glu Thr Tyr Asp Arg Lys Leu Lys Asn Glu Leu Leu
50 55 60

Asn Phe His Arg Leu His Gly Val Cys Leu Ala Leu Gly Ile Leu Ile
65 70 75 80

<210> 6574

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6574

Tyr Ala Leu Arg Arg His Lys Leu Met Ser Leu Ile Gln Lys Glu Ala
1 5 10 15

Gln Gly Gln Ser Gly Thr Asp Gln Thr Val Gly Val Leu Ser Asn Pro
20 25 30

Thr Tyr Tyr Met Ser Asn Asp Ile Pro Tyr Thr Phe His Gln Asp Asn
35 40 45

Asn Phe Leu Tyr Leu Cys Gly Phe Gln Glu Pro Asp Ser Ile Leu Val
50 55 60

5824

Leu Xaa Ser Leu Pro Gly Lys Gln Leu Pro Xaa His Lys Ala Ile Leu
 65 70 75 80

Phe Val Pro Arg Arg Asp Pro Ser Arg Glu Leu Trp Asp Gly Pro Xaa
 85 90 95

Ser Gly Thr Asp Gly Ala Ile Ser Ser Asn Trp Ser Arg Arg Ser Leu
 100 105 110

Tyr Ala Arg Arg Ile Ser Thr Xaa Cys Thr Lys Asn Glu Ser
 115 120 125

<210> 6575

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6575

Gly Lys Phe Cys Val Gln Ser Glu Arg Gln Asp Ser Ala Ala Val Gly
 1 5 10 15

Phe Asp Tyr Lys Glu Lys Leu Ala Lys His Glu Ser Gln Gln Asp Tyr
 20 25 30

Ser Lys Gly Phe Gly Gly Lys Tyr Gly Val Gln Lys Asp Arg Met Asp
 35 40 45

Lys Asn Ala Ser Thr Phe Glu Asp Val Thr Gln Val Ser Ser Ala Tyr

5825

50 55 60
 Gln Lys Thr Val Pro Val Glu Ala Val Thr Ser Lys Thr Ser Asn Ile
 65 70 75 80
 Arg Ala Asn Phe Glu Asn Leu Ala Lys Glu Lys Glu Gln Glu Asp Arg
 85 90 95
 Arg Lys Ala Xaa Ala Glu Arg Ala Gln Arg Met Ala Lys Glu Arg Gln
 100 105 110
 Glu Gln Glu Glu Ala Arg Lys Lys Leu Gly Xaa Thr Ser Gln Ser Gln
 115 120 125
 Asn Ala Asn Ala Pro Cys Val Xaa Arg Thr Leu Ser Gln Pro Xaa Glu
 130 135 140
 Lys
 145

<210> 6576

<211> 76

<212> PRT

<213> Homo sapiens

<400> 6576

Gly Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg Asn Val Thr Leu
 1 5 10 15
 His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr Thr Glu Val Glu
 20 25 30
 Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro Gly Asp Thr Gln
 35 40 45
 His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Glu Ala Glu Ser Gly
 50 55 60
 Ser Trp Glu Arg Gly Val Pro Val Ser Pro Met His
 65 70 75

<210> 6577

<211> 39

<212> PRT

<213> Homo sapiens

<400> 6577

5827

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6579

Lys Met Pro Lys Ser Leu Lys Xaa Xaa Gln Thr Glu Xaa Leu Xaa Asn

1

5

10

15

5828

Ala Leu Leu Gln Gly Xaa Pro Val Xaa Xaa Gly Arg Cys Xaa Arg Gln
20 25 30

Pro Leu Thr Arg Cys Ile Ala Thr Ala Ser Gly Ser Lys Leu Lys Gly
35 40 45

Gln Pro Val Arg Ile Xaa Pro Gly Lys Ser Asp Xaa Arg His Gln Pro
50 55 60

Gly Gly Ser Met Arg Thr Gly Pro Thr Glu Ser Leu Ile Gln Gly Leu
65 70 75 80

His Gln Ser Val Phe Arg Ala Xaa Lys Arg Ile Gly Leu Val Leu Phe
85 90 95

Gly Lys Gly Asn Thr Gly Phe Pro Leu Ala Gly Thr Val Arg Pro
100 105 110

<210> 6580

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

5829

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6580
Leu Thr Tyr Val Arg Pro Lys Gly Leu Ile Ser Met Xaa Glu Ser Arg
1 5 10 15
Ser Cys Asp Gly His Leu Gly Asn Phe Leu Gly Ala Arg Ser Pro Asp
20 25 30

5830

Glu Thr Ile Phe Cys Asn Asp Xaa Pro Leu His Leu Leu His Xaa Trp
 35 40 45
 Ser Pro Asp Ile Ile Pro Xaa Leu Val Ser Cys Arg Phe Thr Lys Glu
 50 55 60
 Thr Thr Xaa Lys Asn Phe Asn Xaa Xaa Tyr Gly Thr Lys Gly Asn Tyr
 65 70 75 80
 Thr Ser Xaa Xaa Trp Glu Tyr Ser Xaa Ser Ile Gln Asn Ser Asp Asn
 85 90 95
 Asp Leu Pro Val Phe Gln Gly Ile Ser Ser Phe Ser Leu Lys Gly Tyr
 100 105 110
 Xaa Xaa Leu Met Arg Ser Xaa Ser Xaa Lys Ala Gln Pro Gln Thr Trp
 115 120 125
 Lys Ser Gly
 130

<210> 6581

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6581

Leu Ala Phe Xaa Xaa Ile Lys Leu Gly Arg Tyr Ser Gly Leu Xaa His

5831

1 5 10 15
 Gly Val Ala Tyr Gly Ala Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala
 20 25 30
 Glu Glu Glu Arg Arg Ile Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu
 35 40 45
 Leu Lys Arg Ile Ala Arg Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys
 50 55 60
 Xaa Val Thr Leu Arg Pro Thr Pro Trp Thr Ser Ser Gly
 65 70 75

<210> 6582

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6582

Pro Arg Lys Leu Lys Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu
 1 5 10 15
 Phe Ala Ser Phe Ile Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val
 20 25 30
 Leu Ile Ile Leu Phe Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu
 35 40 45
 Ile Asn Asn Arg Leu Ile Thr Thr Gln Gln
 50 55

<210> 6583

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

5832

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6583

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Ala | Val | Ile | Ile | Gly | Phe | Arg | Ser | Lys | Ile | Lys | Asn | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Phe | Leu | Pro | Gln | Gly | Thr | Pro | Thr | Pro | Leu | Ile | Pro | Ile | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Ile | Glu | Thr | Ile | Ser | Leu | Leu | Ile | Gln | Pro | Ile | Ala | Leu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Leu | Thr | Ala | Tyr | Ile | Thr | Ala | Xaa | His | Leu | Leu | Met | His | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Xaa | Ala | Thr | Leu | Xaa | Ile | Ser | Thr | Ile | Asn | Leu | Pro | Ser | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ile | Ile | Phe | Thr | Ile | Leu | Ile | Leu | Leu | Thr | Ile | Leu | Glu | Ile | Ala |
| | | | 85 | | | | | 90 | | | | | 95 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Leu | Ile | Gln | Ser | Leu | Arg | Phe | Pro | His | Phe | Xaa | Leu | Ser | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Ala | Gln | Gln | Xaa |
| | | | | | 115 |

<210> 6584

<211> 84

<212> PRT

<213> Homo sapiens

<400> 6584

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Val | Thr | Ala | Val | Ala | Phe | Asn | Lys | Glu | Leu | Asp | Pro | Ile | Gln |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

5833

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
20 25 30

Ser Gly Gly Pro Val Asp Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
35 40 45

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe Gly Asn Ala Asp Met Asn
50 55 60

Thr Phe Pro Thr Phe Lys Phe Glu Asp Pro Lys Phe Glu Val Ile Glu
65 70 75 80

Lys Pro Gln Ala

<210> 6585

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

5834

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6585

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Ala | Val | Ile | Ile | Xaa | Phe | Arg | Ser | Lys | Ile | Lys | Xaa | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Phe | Leu | Ser | Lys | Xaa | Thr | Pro | Thr | Pro | Leu | Ile | Pro | Ile | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Met | Xaa | Asn | Xaa | Ile | Leu | Leu | Xaa | Xaa | Pro | Ile | Ala | Leu | Gly |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Leu | Ile | Ala | Tyr | Ile | Thr | Xaa | Gly | His | Xaa | Leu | Met | His | Leu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Xaa | Val | Pro | Tyr | Asn | Ile | Asn | His |
| 65 | | | | | | 70 | | | |

<210> 6586

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5835

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6586

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Ala | Phe | Gln | Ser | Val | Val | Leu | Pro | Ala | Phe | Glu | Lys | Ser | Cys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Gln | Ala | Met | Phe | Gln | Gln | Ile | Asn | Asp | Ser | Phe | Arg | Leu | Gly | Thr | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Glu | Tyr | Leu | Gln | Gln | Leu | Glu | Ser | His | Met | Lys | Ser | Arg | Lys | Ala | Arg |
| | | | 35 | | | | | 40 | | | | | 45 | | |
| Glu | Gln | Glu | Ala | Arg | Glu | Pro | Val | Leu | Ala | Gln | Gln | Ala | His | Ile | Leu |
| | | | 50 | | | | | 55 | | | | 60 | | | |
| Gln | Leu | Leu | Gln | Gln | Gly | His | Leu | Asn | Gln | Ala | Xaa | Gln | Gln | Ala | Leu |
| | | | 65 | | | | | 70 | | | | 75 | | | 80 |
| Thr | Ala | Ala | Asp | Leu | Asn | Leu | Val | Leu | Val | Cys | Val | | | | |
| | | | | 85 | | | | | | | 90 | | | | |

<210> 6587

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6587

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Leu | Ala | Leu | Leu | Ser | Leu | Ser | Gly | Leu | Glu | Ala | Ile | Gln | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Thr | Pro | Lys | Ile | Gln | Val | Tyr | Ser | Arg | His | Pro | Ala | Glu | Asn | Gly | Lys |
| | | | | 20 | | | | | 25 | | | | | 30 | |

5836

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Phe | Leu | Asn | Cys | Tyr | Val | Ser | Gly | Phe | His | Pro | Ser | Asp | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Glu | Val | Asp | Leu | Leu | Lys | Asn | Gly | Glu | Arg | Ile | Glu | Lys | Ser | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Phe | Arg | Leu | Xaa | Phe | Gln | Gln | Gly | Leu | Val | Phe | Leu | Ser | Xaa | Xaa | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

His

<210> 6588

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6588

Pro Gln Lys Pro Leu Ser Ser Thr Pro Thr Gly Cys Xaa Trp Gly Lys
1 5 10 15

Thr Gln Gly Leu Gln Cys Leu Gly Pro Gly Trp Arg His Leu His Ala
20 25 30

5837

Val Pro Thr Ala Pro Pro Ala Leu Arg His Gly Leu Leu Arg Xaa Met
 35 40 45
 Cys Leu Pro Trp Thr Arg Arg Leu Gly Tyr Ser Ala Met Pro Gln Ala
 50 55 60
 Leu Thr Leu Val Pro Ser Trp Leu Pro Gly Pro Pro Gly Arg Thr Ser
 65 70 75 80
 Ala Ala Arg Gly Cys Gly Arg Pro Ser Arg Ser Trp Arg Ala Ala Ala
 85 90 95
 Glu Ala Gly Gly Pro Gly Gly Xaa Gly Pro Ala Xaa Val Gly Ser Gly
 100 105 110
 Ala Gly Gly Arg Arg Pro Ala Val Thr Gly Ala Ala Pro Ala Ser Leu
 115 120 125
 Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro
 130 135 140
 Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
 145 150

<210> 6589

<211> 128

<212> PRT

<213> Homo sapiens

<400> 6589

Val Cys Met Ser Tyr Ala Phe His Thr Pro Asp Lys Leu Ser Phe Ile
 1 5 10 15
 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His
 20 25 30
 Gly Val Phe Ser Glu Ala Asp Met Arg Phe Tyr Ala Ala Glu Ile Ile
 35 40 45
 Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr Arg Asp Leu
 50 55 60
 Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His Val Arg Ile Ser
 65 70 75 80
 Asp Leu Gly Leu Ala Cys Asp Phe Ser Arg Arg Ser Pro Met Pro Ala
 85 90 95
 Trp Ala Pro Thr Gly Thr Trp Leu Arg Arg Ser Cys Arg Arg Ala Trp

5838

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Pro Thr Thr Ala Val Pro Thr Gly Ser Leu Trp Gly Ala Cys Ser Ser | | |
| 115 | 120 | 125 |

<210> 6590

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6590

| |
|---|
| Xaa Pro Thr Pro Val Thr Phe Gly Phe Xaa Pro Ser Phe Phe Ala Thr |
| 1 5 10 15 |

| |
|---|
| Phe Ala Gly Phe Pro Arg Gln Ala Xaa Asn Xaa Gly Leu Pro Leu Gly |
| 20 25 30 |

5839

Phe Pro Ile Xaa Xaa Phe Thr
35

<210> 6591

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6591

Xaa Thr Ile Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe
1 5 10 15

Pro Gly Val Val Thr Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala Leu
20 25 30

Xaa Pro Ala Pro Phe Ala Phe Phe Pro Ser Phe Leu Ala Thr Phe Ala
35 40 45

Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly Phe Arg
50 55 60

Phe Ser Ala Leu Arg His Leu Asp Pro Lys Lys Leu Asp
65 70 75

<210> 6592

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5840

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6592

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Xaa | Pro | Lys | Xaa | Ala | Gln | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Asp

<210> 6593

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6593

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5841

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
 35 40 45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Xaa Trp Arg Asn Ser Xaa
 50 55 60

Glu Ala Arg Thr Asp Arg Leu Pro Asn Ser Cys Ala Xaa
 65 70 75

<210> 6594

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6594

Xaa Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
 1 5 10 15

Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Gly
 20 25 30

<210> 6595

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5842

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6595

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn | Xaa | Glu |
| | | 50 | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ala | Arg | Asn | Xaa | Xaa | Pro | Xaa | Pro | Asn | Arg | Leu | Arg | Ser | Leu | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Met | Gly | Arg | Ala | Leu |
| | | | | | | 85 |

<210> 6596

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5843

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6596

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Lys | Arg | Ala | Ala | Ala | Leu | Glu | Asp | Pro | Ser | Leu | Arg | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Cys | Arg | Arg | His | Xaa | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Gly | Arg | Arg | Leu | His | Val | Val | Thr | Gly | Xaa | Asn | Pro | Ala | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Leu | Asn | Pro | Pro | Cys | Arg | Thr | Ser | Pro | Phe | Arg | Lys | Xaa | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Lys | Gly | Pro | Thr | Xaa |
| 65 | | | | | 70 | |

<210> 6597

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6597

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Thr | Thr | Xaa | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Leu | Trp | Ser | Gln | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5844

<210> 6598

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6598

Ala Ser Ser Arg Ser Arg Ala Xaa Xaa Leu Glu Asp Pro Ser Leu Arg

1

5

10

15

5845

Thr Arg Ala Cys Arg Arg His Ser Xaa Ser Ile Val Ser Pro Lys Phe
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly
35 40 45

Xaa Thr Gln Leu Lys Arg Leu Ala Val His Ser Leu Phe Xaa Gln Xaa
50 55 60

Xaa
65

<210> 6599

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5846

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6599

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Asp | Xaa | Thr | Lys | Lys | Lys | Lys | Lys | Gly | Gly | Arg | Ser | Xaa | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Xaa | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg | Leu | Ala | Ala | His | Thr | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Leu | Xaa | Ser | Leu | Asn | Gly | Glu | Trp | Asp | Ala | Pro | Cys | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Ser | Ala | Xaa | Gly | Val | Val | Val | Thr |
| | | | 100 | | | | | 105 | |

<210> 6600

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5847

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6600

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Pro | Phe | Gly | Asn | Pro | Xaa | Gly | Thr | Thr | Xaa | Tyr | Arg | Glu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Asp | Ala | Trp | Ala | Asp | Ala | Trp | Ala | Asp | Ala | Trp | Val | Lys | Xaa |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Lys | Lys | Leu | Phe | Val | Leu | Asp | Asp | Arg | Glu | Ala | His | Asn | Glu |
| | 50 | | | | | | 55 | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Pro | Leu | Xaa | Xaa |
| 65 | | | | | 70 |

<210> 6601

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5848

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6601

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Leu | Cys | Asn | Leu | Lys | Asn | Xaa | Xaa | Glu | Gly | Gly | Arg | Ser | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Glu | Asn | Pro | Gly | Val | Thr | Xaa | Leu | Asn | Arg | Leu | Ala | Ala | His | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Pro | Phe | Xaa | Gln | Xaa |
| 65 | | | | |

<210> 6602

<211> 32

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

5849

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6602
Leu Xaa Xaa Leu Trp Lys Thr Pro His Tyr Arg Leu Ser Trp Tyr Ala
1 5 10 15
Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Xaa Xaa Ser
20 25 30

<210> 6603
<211> 38
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

5850

<400> 6603

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1 5 10 15

Ala Ser Gly Glu Ser Ser His Tyr Xaa Phe Ser Xaa Gly Xaa Gly Ala
 20 25 30

Gly Xaa Phe Lys Ser Phe
 35

<210> 6604

<211> 44

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (39)

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<220>

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<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6604

Asn Ser Ser Gly Asn Pro His Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg
 1 5 10 15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser
 20 25 30

Ala His Ala Xaa Glu Lys Xaa Arg Xaa Lys Lys Xaa

5851

35

40

<210> 6605

<211> 43

<212> PRT

<213> Homo sapiens

<220>

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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6605

Xaa Ser Pro Ala Ser Tyr Pro Xaa His Tyr Arg Glu Ser Trp Tyr Ala
1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp
20 25 30

5852

Ala Trp Val Asp Pro Xaa Ile Xaa Xaa Xaa Xaa
 35 40

<210> 6606

<211> 57

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (26)

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<220>

<221> SITE

<222> (27)

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<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6606

Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1 5 10 15

Gly Ser Thr His Ala Ser Gly Gln Xaa Xaa Xaa Phe Leu Trp Pro Thr
 20 25 30

Ser Glu Pro Val Thr Arg Lys Gly Lys Xaa Gly Arg Xaa Glu Asp Pro
 35 40 45

Thr Tyr Glu Xaa Asn Val Tyr Gly Leu

5853

50

55

<210> 6607

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6607

Tyr Pro His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
1 5 10 15

Ile Pro Gly Ser Thr His Ala Xaa Ala Glu Arg Glu Thr Ile Ser Ser
20 25 30

Leu Gln Gly Thr Ile Pro Gly Asn Val Leu Ile His Tyr Gly Ile Lys
35 40 45

Ala Val Val
50

<210> 6608

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6608

Pro Xaa Lys Leu Leu Xaa Asn Thr Pro His Tyr Arg Glu Ser Trp Tyr
1 5 10 15

Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly
20 25 30

5854

His Phe

<210> 6609

<211> 48

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6609

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Arg | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Leu | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Xaa | Thr | Xaa | Xaa | Pro | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6610

<211> 41

<212> PRT

<213> Homo sapiens

<400> 6610

5855

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15
Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30
Val Val Leu Gln Arg Arg Asp Trp Glu
35 40

<210> 6611

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6611

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15
Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30
Val Val Leu Gln Arg Arg Asp Trp Glu Thr Lys Xaa Xaa
35 40 45

<210> 6612

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

5856

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6612

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Xaa | Arg | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | | 45 | |

<210> 6613

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5857

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6613

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Ile | Xaa | Ser | Gly | Arg | Xaa | Arg | Gly | Ser | Xaa | Leu | Xaa | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Met | Arg | Xaa | His | Ser | Ser | Xaa | Ile | Met | Ser | Pro | Lys | Phe | Asn | Ser |
| | | | | 20 | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Xaa | Xaa | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Glu | Cys |
| | | | | 35 | | | | 40 | | | | | 45 |

<210> 6614

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6614

5858

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15
 Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30
 Val Val Leu Gln Arg Arg Asp Trp Thr Pro Lys Xaa Xaa
 35 40 45

<210> 6615

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

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<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6615

Asp Tyr Xaa Xaa Ser Asn Thr Ser His Tyr Xaa Glu Ser Trp Tyr Ala
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala
 20 25 30

<210> 6616

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6616

5859

Gly Gly Gly Val Gly Asn Asp Tyr Ala Leu Ser Asn Thr Xaa His Tyr
 1 5 10 15

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 20 25 30

Thr His Ala Ser
 35

<210> 6617

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6617

Leu Arg Xaa Ser Gln Ile Arg Xaa Xaa Ile Gly Xaa Ser Trp Tyr Ala
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Val

5860

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| | 20 | | 25 | | 30 |
| Leu | Val | Val | Ile | Phe | Phe |
| | | | Phe | Xaa | Pro |
| | | | | Gly | Cys |
| | | | | Xaa | Leu |
| | | | | | Phe |
| | 35 | | 40 | | 45 |

<210> 6618

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6618

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Asp | Pro | Lys | Xaa | Xaa |
| | | 35 | | | | 40 | | | | | 45 | |

<210> 6619

<211> 45

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5861

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6619

Ile Ala Ser Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met

1

5

10

15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala

20

25

30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Gln Xaa Xaa

35

40

45

<210> 6620

<211> 57

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6620

Arg Val Gly Thr Lys Thr Ser Arg Gly Xaa Lys Arg Ala Ala Ala Leu

1

5

10

15

Lys Asp Pro Ser Leu Arg Thr Arg Ala Cys Gly Arg His Ser Ser Ser

20

25

30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg

35

40

45

Asp Trp Asp Pro Xaa Asn Xaa Xaa Gly

5862

50

55

<210> 6621

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6621

Met Asp Ile Ser Leu Leu Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg

1

5

10

15

Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Xaa Ile

20

25

30

Xaa Ser Pro Lys Phe Asn Xaa Leu Ala Arg

35

40

<210> 6622

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

5863

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6622
Ile Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15
Arg Arg His Ser Ser Ser Ile Xaa Thr Pro Lys Phe Asn Ser Leu Ala
20 25 30
Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
35 40 45
Asn Arg Leu Ala Ala His Pro Xaa Phe Ala Ser Trp Arg Asn Ser Glu
50 55 60
Glu Ala Arg Thr Asp Arg Leu Ala Asn Arg Cys Ala Xaa
65 70 75

<210> 6623
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)

5864

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6623

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Gln | Ala | Tyr | Arg | Thr | Arg | Ala | Cys | Arg | Arg | His | Ser | Ser | Ser |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Trp | Glu | Asn | Pro | Asp | Xaa | Xaa | Xaa |
| | | | 35 | | | | 40 | |

<210> 6624

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6624

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Xaa | Ile | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | |
|-----|-----|-----|
| Ala | Ser | Val |
| | | 35 |

<210> 6625

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5865

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6625

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Xaa | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Arg | Ile | Val | Asn | Glu | Thr |
| | | | 35 | | | | 40 |

<210> 6626

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6626

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Xaa | Ile | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Glu | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Leu | Leu | Glu |
| | | | 35 |

<210> 6627

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5866

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6627

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Xaa | Ser | Trp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asp

<210> 6628

<211> 59

<212> PRT

<213> Homo sapiens

<220>

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<220>

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5867

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6628

Xaa Lys Gly Asn Xaa Xaa Thr Ala Met Thr Met Ile Thr Pro Ser Ser
1 5 10 15

Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa
20 25 30

Gly Xaa Pro Gly Ser Thr His Ala Xaa Ala His Ala Ser Xaa Pro Met
35 40 45

Thr Thr Lys Gly Arg Lys Lys Tyr Phe Leu His
50 55

<210> 6629

<211> 61

<212> PRT

<213> Homo sapiens

<220>

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5868

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6629

Thr Ile Gly Asn Leu His Arg Ile Thr Ala Met Thr Met Ile Thr Pro

1

5

10

15

Ser Ser Asn Thr Thr His Tyr Xaa Glu Ser Trp Xaa Ala Cys Arg Tyr

20

25

30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp His Phe Ala His

35

40

45

Xaa Ser Phe Leu Xaa Glu His Ser Lys Lys Met Cys Xaa

50

55

60

<210> 6630

<211> 76

<212> PRT

<213> Homo sapiens

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<222> (37)

5869

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6630

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Xaa | Leu | Pro | Pro | Pro | Phe | Pro | Gly | Lys | Thr | Xaa | Leu | Thr | Met |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Pro | Ser | Ser | Asn | Thr | Thr | His | Tyr | Leu | Glu | Ser | Trp | Xaa | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Xaa | Arg | Xaa | Gly | Ile | Pro | Xaa | Ser | Xaa | His | Ala | Ser | Gly | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Glu | Ala | Xaa | Ala | Thr | Met | Glu | Asn | Lys | Xaa | Ile | Cys | Ala | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Xaa Leu Xaa Xaa Met Leu Ala Leu Gly Thr Leu Ala

5870

65

70

75

<210> 6631

<211> 56

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

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<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (41)

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<220>

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<222> (53)

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<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6631

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Gly | Xaa | Leu | Thr | Gly | Asn | Xaa | Asn | Asn | Phe | Thr | Gln | Glu | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Met | Thr | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr | Thr | His | Tyr | Arg | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Xaa | Gly | Ile | Pro | Gly | Ser | Thr | His |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Ala | Trp | Xaa | Ser | Xaa | Ile |
| | | | 50 | | | 55 | |

5871

<210> 6632

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6632

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Ser | Leu | Phe | Gly | Lys | Val | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Ile | Phe | Val | Lys | Asn | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Tyr | Leu | Gln | Asn | Lys | Glu | Thr | Arg | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | |

<210> 6633

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6633

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Met | Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Lys | Cys | Trp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Cys | Arg | Tyr | Arg | Xaa | Gly | Ile | Pro | Gly | Xaa | Thr | His | Ala | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5872

Gly

<210> 6634

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6634

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ile | Gly | Asn | Ser | Leu | Thr | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ser | Thr | His | Ala | Ser | Gly |
| | 35 | | | | | 40 | |

<210> 6635

<211> 52

<212> PRT

<213> Homo sapiens

<220>

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<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6635

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Tyr | Ser | Phe | Leu | Leu | Glu | Thr | Ala | Ile | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

5873

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
 20 25 30
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Xaa Xaa Arg
 35 40 45
 Thr Leu Lys Asn
 50

<210> 6636

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6636

Thr Val Ser Leu Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn
 1 5 10 15

Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
 20 25 30

Ile Pro Gly Ser Thr His Ala Ser Glu Ser Phe Lys Ser Trp Val Phe
 35 40 45

Arg Leu Leu Cys Ser Ser Cys Val Phe Asn Ile Leu
 50 55 60

<210> 6637

<211> 61

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5874

<220>
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<222> (46)
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<220>
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<400> 6637
Glu Xaa Pro Xaa Phe Ile Leu Glu Thr Ala Ile Thr Met Ile Thr Pro
1 5 10 15
Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
20 25 30
Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Pro Xaa Lys Ile
35 40 45
Arg Lys His Xaa Ser Tyr Ser His Val Glu Xaa Xaa Ala
50 55 60

<210> 6638
<211> 44
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5875

<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6638

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Pro | His | Phe | Xaa | Thr | Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Glu |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Phe | Cys | Gly | His | Cys | Lys | Ile | Asn | Ile | Trp |
| | 35 | | | | | | 40 | | | | |

<210> 6639

<211> 77

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6639

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Leu | Ala | Ala | His | Xaa | Pro | Phe | Ala | Ala | Gly | Val | Ile | Ala | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Ala | Pro | Ile | Gly | Leu | Pro | Thr | Ser | Cys | Ala | Ala |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5876

65

70

75

<210> 6640

<211> 64

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

5877

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6640

Lys Lys Xaa Xaa Xaa Xaa Lys Lys Lys Gly Gly Arg Ser Xaa Gly

1

5

10

15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Xaa Ser Ser Ile Val

20

25

30

Ala Pro Lys Phe Asn Tyr Trp Pro Arg Phe Thr Thr Ser Asp Trp Glu

35

40

45

Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Gly Xaa Asn Xaa Leu Leu

50

55

60

<210> 6641

<211> 72

<212> PRT

<213> Homo sapiens

<220>

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5878

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<400> 6641
Tyr Ser Tyr Xaa Leu Pro Tyr Xaa Ile Phe Ile Leu Asn Lys Ile Ile
1 5 10 15
Trp Arg Phe Leu Pro Gln Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Ser
20 25 30

5879

Xaa Lys Gly Gly Arg Xaa Xaa Arg Ser Lys Leu Thr Tyr Ala Cys Met
35 40 45

Gln Arg His Asn Ser Ser Ile Val Ser Leu Asn Ser Ile Xaa Trp Ala
50 55 60

Val Val Leu Gln Arg Xaa Asp Trp
65 70

<210> 6642

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (32)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6642

Arg Thr Xaa Phe Trp Asn Thr Xaa Xaa Tyr Arg Glu Ser Trp Tyr Ala
1 5 10 15

5880

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Xaa
 20 25 30

Leu Xaa Gly Xaa Gly Leu
 35

<210> 6643

<211> 80

<212> PRT

<213> Homo sapiens

<220>

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<222> (55)

5881

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6643

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Xaa | Xaa | Xaa | Leu | Arg | Xaa | Asp | Thr | Thr | His | Tyr | Arg | Glu | Ser |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Xaa | Thr | His | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Glu | Ile | Cys | Pro | Pro | Xaa | Ser | Arg | Pro | Xaa | Ser | Ser | Gln | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Glu | Gly | Tyr | Ser | Xaa | Cys | Arg | Arg | Pro | Gln | Ala | Leu | Glu | Ala |
| | 50 | | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Tyr | Leu | Asn | Pro | Val | Pro | Xaa | Arg | Ile | Leu | Leu | Lys | Pro | Phe |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

<210> 6644

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

5882

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6644

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ala | Trp | Xaa | Leu | Xaa | Thr | Gln | Leu | Gly | Thr | Thr | His | Tyr | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ala | Ser | Gly | Lys | Thr | Trp | Ile | Ile | Xaa | Val | Cys | Cys | Thr | Arg | Gly |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Gly | Xaa | Leu | Thr | Ala | Lys | Asn | Asp |
| | 50 | | | | | | 55 | | |

<210> 6645

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

5883

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6645

Phe Gly Ile Gln Leu Xaa Xaa Xaa Arg Leu Gly Thr Thr His Tyr Arg

1

5

10

15

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr

20

25

30

His Ala Xaa Asp Xaa Met Xaa Leu Trp Leu Leu Gln

35

40

<210> 6646

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

5884

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6646

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Val | Gly | Thr | Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr | Ala | Cys | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Ala | Glu | Xaa |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Xaa | Leu | Glu | Ala | Gly | Lys | Asn | Gln | Xaa | Val | Leu | Xaa | Cys |
| | | | 35 | | | | | 40 | | | | | | 45 | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Gln | Gly | Leu | Glu | Arg | Pro | Xaa | Pro |
| | | | 50 | | | | 55 | | | |

<210> 6647

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6647

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Asn | Thr | Xaa | His | Tyr | Arg | Glu | Ser | Trp | Xaa | Ala | Cys | Arg | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5885

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp Ser Lys Asp Xaa
 20 25 30

Ser Val Asp Gly Ser Xaa
 35

<210> 6648

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6648

Pro Ile Phe Xaa Trp Lys His Ala Met Thr Met Ile Thr Pro Ser Ser
 1 5 10 15

Asn Thr Thr His Tyr Arg Xaa Ser Trp Xaa Ala Cys Arg Tyr Arg Ala
 20 25 30

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Asp Xaa Xaa
 35 40 45

<210> 6649

5886

<211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6649
 Tyr Glu Xaa Xaa Lys Leu Leu Arg Glu Ser Xaa Asn Asn Phe Thr Gln
 1 5 10 15
 Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr
 20 25 30
 Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 35 40 45
 Thr His Ala Ser Gly Pro Ser Arg Glu Ile Pro Arg Ser Leu His Leu
 50 55 60
 Val Ile Xaa Thr Glu His Arg Pro Pro Thr Met Glu Leu Gly Leu Ser
 65 70 75 80
 Trp Ile Xaa Leu Xaa Ala Met Ile Lys Gly Val Asn

5888

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

Lys Lys Lys Xaa Gly Xaa Xaa
65 70

<210> 6651

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

5889

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6651

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Thr | Gln | Val | Ala | Ala | Met | Xaa | Met | Ile | Thr | Xaa | Xaa | Ser | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | His | Tyr | Arg | Glu | Ser | Xaa | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Gly | Ser | Thr | His | Ala | Leu | Arg | Tyr | Cys | Gly | Pro | Xaa | Ala | His |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Phe | Thr | Ser | Pro | Pro | Cys | Xaa | Ser | Leu | Xaa | Leu | Xaa | Met | Leu | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6652

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6652

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Ser | Pro | Gly | Lys | Xaa | Xaa | Thr | Ile | Leu | His | Arg | Lys | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5890

Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu Ser
 20 25 30

Xaa Xaa Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala
 35 40 45

Ser Gly Gln Ala
 50

<210> 6653

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6653

Gln Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His
 1 5 10 15

Tyr Arg Asp Cys Trp Xaa Ala Cys Arg Tyr Arg Ala Gly Ile Xaa Gly
 20 25 30

Ser Thr His Ala Ser Xaa Arg
 35

<210> 6654

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5891

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6654

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Asp | Asn | Thr | Leu | Thr | Gln | Xaa | Thr | Ala | Met | Thr | Met | Ile | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Ser | Asn | Thr | Thr | His | Tyr | Arg | Xaa | Xaa | Trp | Tyr | Ala | Cys | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Val | Xaa | Arg | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Thr | Cys | Phe | Ala | Arg | Xaa | Arg | Xaa | Thr | Tyr | Xaa | Thr |
| | 50 | | | | | 55 | | | | | 60 | | |

5892

<210> 6655

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6655

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Xaa | Xaa | Thr | Gln | Asp | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Thr | Thr | His | Tyr | Arg | Xaa | Ser | Cys | Tyr | Ala | Cys | Xaa | Tyr | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | Phe | Gly | Val | His | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Gly | Ser | Leu | Asn | Phe | Leu | Ser | Asn | Leu | Glu | Cys | Leu | Leu | His |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Asn | Phe | Cys | Lys | Cys | Leu | Lys |
| | | 65 | | | 70 | | | |

<210> 6656

5893

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6656

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Cys | Thr | Lys | Lys | Lys | Lys | Lys | Gly | Gly | Arg | Ser | Arg | Gly | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu |
| | | | 35 | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg | Leu | Ala | Ala | His | Xaa | Pro | Phe |
| | | 50 | | | | | 55 | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu | Trp | Asp | Ala | Pro | Cys | Ser | Gly | Ala |
| | | | | 85 | | | | | | 90 | | | | 95 | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ala | Xaa | Xaa | Val | Xaa |
| | | | | | | 100 |

5894

<210> 6657

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6657

Ile Ala Ser Gly Arg Ser Arg Gly Xaa Lys Leu Thr Tyr Ala Cys Met

1

5

10

15

5895

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30
 Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
 35 40 45
 Asn Xaa Leu Ala Xaa His Pro Pro Phe Xaa Ser Trp Arg Asn Ser Glu
 50 55 60
 Glu Ala Arg Thr Asp Arg Pro Phe Gln Gln Leu Arg Ser Leu Asn Gly
 65 70 75 80
 Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Xaa Val Xaa
 85 90 95
 Val Thr Arg Ser Val Thr Val Thr Leu Ala Arg Xaa Xaa
 100 105

<210> 6658

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (61)

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<220>

5896

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<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6658

Lys Lys Lys Xaa Glu Lys Xaa Lys Gly Gly Arg Ser Arg Gly Ser Lys
1 5 10 15

Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Gly Ser Pro
20 25 30

Lys Xaa Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
35 40 45

Pro Gly Val Thr Gln Leu Arg Gly Xaa Gly Ser Thr Xaa Pro Xaa Arg
50 55 60

Gln Leu Ala Glu Glu Arg Arg Gly Ala Ala Pro Ile Ala Leu Ala Asn
65 70 75 80

Ser Cys Ala Ala

<210> 6659

<211> 101

<212> PRT

<213> Homo sapiens

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 <400> 6659
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 1 5 10 15
 Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe
 20 25 30
 Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly
 35 40 45
 Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp
 50 55 60
 Arg Asn Ser Xaa Lys Ala Arg Thr Asp Arg Pro Xaa Gln Gln Leu Arg
 65 70 75 80
 Ser Leu Asn Gly Xaa Met Gly Thr Arg Pro Val Thr Gly Ala Leu Ser
 85 90 95

 Xaa Ala Gly Trp Xaa
 100

 <210> 6660
 <211> 92
 <212> PRT

5898

<213> Homo sapiens

<220>

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<400> 6660

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Xaa | Xaa | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Met | Arg | Arg | Tyr | Ser | Tyr | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Val | Leu | Gln | Arg | Xaa | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Cys | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Lys | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5899

65 70 75 80
 Asn Gly Glu Trp Asp Pro Ala Leu Xaa Arg Gly Xaa
 85 90

<210> 6661
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 <213> Homo sapiens

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<400> 6661
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 1 5 10 15
 Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
 20 25 30
 Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Xaa
 35 40 45
 Xaa Trp Glu Asn Pro Gly Val Thr Gln Xaa Asn
 50 55

5900

<210> 6662

<211> 71

<212> PRT

<213> Homo sapiens

<400> 6662

Ile Lys Val Ile Thr Ile Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser
1 5 10 15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
20 25 30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg
35 40 45

Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
50 55 60

Pro Pro Phe Ala Ser Trp Pro
65 70

<210> 6663

<211> 61

<212> PRT

<213> Homo sapiens

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6663

Xaa Xaa Asp Leu Xaa Cys Gln Xaa Asp Tyr Arg Glu Ser Trp Tyr Ala

5901

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Gln | | | |
| | 20 | 25 | 30 |
| Leu Leu Arg Ser Glu Pro Phe Pro Leu His Phe Leu Phe Thr Gln Gly | | | |
| | 35 | 40 | 45 |
| Gly Ala Gly Ser Gly Gly Arg Lys Leu Gly Gly Gly Val | | | |
| | 50 | 55 | 60 |

<210> 6664

<211> 44

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6664

| |
|---|
| Ile Ala Ser Gly Arg Ser Ile Gly Ser Lys Leu Thr Tyr Ala Cys Met |
| 1 5 10 15 |

| |
|---|
| Arg Arg His Asn Ser Ser Xaa Val Ser Pro Lys Xaa Asn Ser Leu Ala |
| 20 25 30 |

| |
|---|
| Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa |
| 35 40 |

<210> 6665

<211> 45

<212> PRT

<213> Homo sapiens

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5902

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<400> 6665
Gly Xaa Xaa Leu Thr Phe Pro Phe Met Xaa Xaa His Asn Ser Ser Ile
1 5 10 15
Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Pro Asp
20 25 30
Trp Xaa Xaa Lys Asn Xaa Arg Asn Xaa Lys Val Arg Arg
35 40 45

5903

<210> 6666

<211> 53

<212> PRT

<213> Homo sapiens

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<222> (39)

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<221> SITE

<222> (49)

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<400> 6666

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Ser | Arg | Xaa | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Ala | Val | Val | Xaa | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Ser | Cys | Gly | Ser |
| | | | | 50 |

<210> 6667

<211> 51

<212> PRT

<213> Homo sapiens

<220>

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<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5904

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6667

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Ser | Ser | Ile | Ala | Ser | Gly | Arg | Ser | Arg | Arg | Ser | Lys | Leu | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Pro | Gln | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Xaa | Xaa | Xaa |
| | 50 | |

<210> 6668

<211> 52

<212> PRT

<213> Homo sapiens

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<221> SITE

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<222> (42)

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<220>

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5905

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6668

Ser Leu Arg Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Xaa Ser

1

5

10

15

Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu

20

25

30

Asn Xaa Xaa Lys Ser Cys Lys Arg Gly Xaa Glu Leu Asn Leu Val Xaa

35

40

45

Tyr Arg Arg Leu

50

<210> 6669

<211> 46

<212> PRT

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6669

Leu Phe Ile Xaa Ala Pro Lys Phe Asn Ser Leu Gly Pro Ser Phe Thr

1

5

10

15

Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Xaa Arg Leu Gly

20

25

30

Xaa Asn Pro Pro Phe Ala Asn Trp Gly Ile Thr Lys Lys Ala

5906

35

40

45

<210> 6670

<211> 29

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6670

Ile Gln Phe Thr Xaa Arg Xaa Leu Gln Xaa Xaa Asp Trp Glu Asn Pro

1

5

10

15

Gly Val Xaa Gln Leu Asn Arg Leu Ala Ala His Pro Pro

20

25

<210> 6671

<211> 158

<212> PRT

<213> Homo sapiens

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5908

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5909

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<400> 6671

Arg Gly Trp Ala Xaa Xaa Pro Xaa Arg Arg Xaa Pro Val Glu Asp Xaa
 1 5 10 15

His Leu Pro Arg Leu Val Ser Arg Thr Pro Gly Thr Xaa Pro Xaa Tyr
 20 25 30

Xaa His Ser Tyr Leu Gly Ser Ala Arg Glu Arg Gln Ala Arg Ser Glu
 35 40 45

Gly Xaa Ser Xaa Gly Gly Xaa Leu Glu Thr Pro Ser Lys Arg Ser Ala
 50 55 60

Gln Ile Gly Pro Arg Xaa Ala Ser Tyr Tyr Ala Trp Ser Xaa Pro Gly
 65 70 75 80

Xaa Tyr Lys Ala Gly Ser Ser Gln Asp Asp Gln Glu Asp Ala Cys Asp
 85 90 95

Asp Ala Leu Ser Xaa Tyr Ser Xaa Leu Glu Leu Thr Arg Xaa Xaa Ser
 100 105 110

Tyr Arg Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg
 115 120 125

Arg His Ser Ser Ser Ile Xaa Xaa Pro Lys Xaa Asn Ser Leu Ala Val
 130 135 140

Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
 145 150 155

<210> 6672

<211> 77

<212> PRT

<213> Homo sapiens

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5910

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<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6672

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Asn | Val | Thr | Ile | Lys | Ser | Ser | Lys | Val | Lys | Lys | Xaa | Xaa | Lys |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Ser | Ser | Ile | Val | Ser | Pro | Lys | Xaa | Asn | Ser | Leu | Ala | Gly | Xaa |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Thr | Val | Val | Thr | Gly | Lys | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Cys | Xaa | His | Ile | Pro | Pro | Phe | Arg | Gln | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 6673

<211> 77

<212> PRT

<213> Homo sapiens

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5911

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5912

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<400> 6673

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Xaa | Xaa | Ser | Leu | Asn | Gly | Xaa | Trp | His | Ala | Pro | Cys | Ser | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Xaa | Ala | Ala | Xaa | Val | Val | Asp | Thr | Arg | Ser | Val | Thr | Ala | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Ser | Xaa | Leu | Arg | Pro | Leu | Leu | Xaa | Leu | Tyr | Phe | Pro | Ser | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Thr | Phe | Ser | Arg | Leu | Ser | Pro | Xaa | Lys | Leu | Xaa | Asn | Arg | Xaa |
| | | 50 | | | | | 55 | | | | | 60 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Leu | Xaa | Gly | Val | Pro | Ile | Leu | Xaa | Ala | Phe | Tyr |
| | 65 | | | | 70 | | | | | 75 | | |

<210> 6674

<211> 90

<212> PRT

<213> Homo sapiens

<220>

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

5913

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6674

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Ala | Ala | His | Xaa | Pro | Phe | Ala | Ser | Trp | Xaa | Asn | Ser | Glu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Thr | Asp | Arg | Thr | Ser | Gln | Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asp | Ala | Pro | Cys | Ser | Gly | Ala | Leu | Xaa | Ala | Ala | Gly | Val | Val | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Xaa | Xaa | Thr | Ala | Thr | Leu | Xaa | Ser |
| | | | | 85 | | | | 90 | |

<210> 6675

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

5914

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6675

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Met | Arg | Arg | His | Ser | Xaa | Xaa | Ile | Xaa | Xaa | Pro | Lys | Phe | Asn | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | |

<210> 6676

<211> 137

<212> PRT

<213> Homo sapiens

<220>

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<222> (12)

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<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (124)

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<220>

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<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5915

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6676

Ile Lys Leu Gly Asn Gln Lys Lys Lys Lys Xaa Lys Gly Gly Arg
 1 5 10 15

Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser
 20 25 30

Ser Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg
 35 40 45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala
 50 55 60

His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
 65 70 75 80

Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro
 85 90 95

Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Pro Gln Arg
 100 105 110

Asp Pro Leu His Leu Pro Xaa Pro Tyr Arg Pro Xaa Pro Ser Leu Ser
 115 120 125

Ser Leu Pro Xaa Xaa Pro Arg Ser Pro
 130 135

<210> 6677

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6677

Glu Asn Pro Gly Gly Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

5916

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
| Phe | Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gln | Gln | Leu | Arg | Xaa | Leu | Asn | Gly | Glu | Trp | Asp | Ala | Pro | Cys | Ser | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ala | Leu | Ser | Ala | Ala | Gly | Val | Val | Gly | Thr | Arg | Ser | Xaa | Thr | Ala | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ala | Ala | Pro | Ser | Ala | Ala | Leu | Ser | Leu | Leu | Pro | Ser | Phe | Ser | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Val | Gly | Gly | Phe | Pro | Val | Ser | Ser | Asn | Gly | Ala | Pro | | | | |
| | | | | 85 | | | | | 90 | | | | | | |

<210> 6678

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6678

Leu Ile Asp Arg Ser Xaa Arg Tyr Leu Pro Leu Xaa Ile Ile Leu Lys

5917

| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Xaa | Ala | Met | Val | Phe | Asn | Thr | Phe | Asn | Val | Leu | His | Trp | Gln |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Arg | Ile | Xaa | Asp | Gln | Ser | Leu | Pro | Tyr | His | Asn | Ile | Thr | Tyr | Xaa | |
| | | 35 | | | | | | 40 | | | | | 45 | | |

<210> 6679

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5918

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6679

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Pro | Tyr | Cys | Pro | Lys | Ile | Gln | Ser | Pro | Pro | Tyr | Ser | Ser | Gln |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Thr | Ser | Asp | Ala | Ser | Leu | Trp | Thr | Pro | Pro | Gln | Gly | Cys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Thr | Gln | Xaa | Ser | Pro | Glu | Pro | Arg | Asn | Pro | Pro | Val | Pro | Trp | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Pro | Ala | Thr | Leu | Glu | Leu | Ala | Ala | Val | Tyr | Gln | Gly | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Pro | Glu | Pro | Cys | Leu | Ser | Leu | Gly | Ala | Pro | Ser | Leu | Leu | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Xaa | Cys | Gln | Arg | Leu | Gln | Pro | Gln | Thr | Xaa | Gly | Xaa | Cys | Trp |
| | | | | 85 | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | His | Ser | Ala | Glu | Val | Val | Pro | Asn | Ser | Glu | Asp | Gln | Gly | Pro | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Phe | Gln | Leu | Ser | Glu | Xaa | Ser | Pro | Thr | Gln | Ser | Ser | Xaa | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Phe | Ser | Gly | Cys | Pro | Glu | Leu | Trp | Gln | Glu | Xaa | Leu | Glu | Gly | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |

Xaa Leu Gly

145

<210> 6680

<211> 172

<212> PRT

<213> Homo sapiens

5919

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6680

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Trp | Leu | Ala | Gly | Pro | Lys | Glu | Glu | Xaa | Met | Asp | Xaa | Asp | Ile | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Lys | Val | Lys | Glu | Glu | Pro | Arg | Asp | Glu | Glu | Glu | Glu | Ala | Lys |
| | | 20 | | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Ala | Pro | Pro | Lys | Ala | Ala | Arg | Lys | Thr | Pro | Gly | Leu | Pro | Lys |
| | | 35 | | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Ser | Val | Ala | Glu | Leu | Leu | Arg | Glu | Leu | Ser | Leu | Thr | Lys | Glu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Leu | Leu | Phe | Leu | Gln | Leu | Pro | Asp | Thr | Leu | Pro | Gly | Gln | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5920

```

Pro Thr Gln Asp Ile Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp
      85                      90                      95

Gly Gln Val Val Leu Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu
      100                    105                    110

Ala Glu Asn Ala Cys Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly
      115                    120                    125

Lys Leu Leu Ile Arg Lys Ser Gly Arg Val Gln Leu Leu Leu Gly Lys
      130                    135                    140

Val Thr Leu Asp Val Asp His Gly Asn Cys Leu Leu Leu Xaa Xaa Gly
      145                    150                    155                    160

Ala Gly Val Arg Gly Pro Xaa Arg Gln Xaa Asp Xaa
      165                    170

```

<210> 6681

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6681

```

Ile Ala Ala Ala Arg Val Trp Arg Leu Asn Arg Gly Leu Ser Gln Ala
  1             5             10             15

```

```

Ala Leu Leu Leu Leu Arg Gln Pro Gly Ala Arg Gly Leu Ala Arg Ser

```

5921

| | | | | | |
|---|----|--|----|--|----|
| | 20 | | 25 | | 30 |
| Val Ser Thr Trp Ala Pro Gly Gly Phe Pro Lys Gly Asp Xaa Gly Cys | | | | | |
| | 35 | | 40 | | 45 |
| Lys Gly Tyr Leu Xaa Xaa Xaa | | | | | |
| | 50 | | 55 | | |

<210> 6682
 <211> 56
 <212> PRT
 <213> Homo sapiens

| | | | | | | | | | | | | | | | |
|---|--|--|----|--|--|--|----|--|--|--|--|--|----|--|--|
| <400> 6682 | | | | | | | | | | | | | | | |
| Gly Leu Gln Ser Asn Met Pro Lys Phe Tyr Cys Asp Tyr Cys Asp Thr | | | | | | | | | | | | | | | |
| 1 | | | 5 | | | | 10 | | | | | | 15 | | |
| Tyr Leu Thr His Asp Ser Pro Ser Val Arg Lys Thr His Cys Ser Gly | | | | | | | | | | | | | | | |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Arg Lys His Lys Glu Asn Val Lys Asp Tyr Tyr Leu Leu Leu His Ser | | | | | | | | | | | | | | | |
| | | | 35 | | | | 40 | | | | | | 45 | | |
| Leu Leu Leu Leu Leu Gln Gly Arg | | | | | | | | | | | | | | | |
| | | | 50 | | | | 55 | | | | | | | | |

<210> 6683
 <211> 102
 <212> PRT
 <213> Homo sapiens

| | | | | | | | | | | | | | | | |
|---|--|--|----|--|--|--|----|--|--|--|--|--|----|--|----|
| <400> 6683 | | | | | | | | | | | | | | | |
| Ser Phe Arg Arg Pro Met Ala Ser Ala Ser Thr Gln Pro Ala Ala Leu | | | | | | | | | | | | | | | |
| 1 | | | 5 | | | | 10 | | | | | | 15 | | |
| Ser Ala Glu Gln Ala Lys Val Val Leu Ala Glu Val Ile Gln Ala Phe | | | | | | | | | | | | | | | |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Ser Ala Pro Glu Asn Ala Val Arg Met Asp Glu Ala Arg Asp Asn Ala | | | | | | | | | | | | | | | |
| | | | 35 | | | | 40 | | | | | | 45 | | |
| Cys Asn Asp Met Gly Val Leu Lys Phe Ala Arg Leu Val Lys Ser Tyr | | | | | | | | | | | | | | | |
| | | | 50 | | | | 55 | | | | | | 60 | | |
| Glu Ala Gln Asp Pro Glu Ile Ala Ser Leu Ser Gly Lys Leu Lys Ala | | | | | | | | | | | | | | | |
| | | | 65 | | | | 70 | | | | | | 75 | | 80 |

5922

Leu Phe Leu Pro Pro Met Thr Leu Pro Pro His Gly Pro Ala Ala Gly
 85 90 95

Gly Ser Val Ala Ala Ser
 100

<210> 6684

<211> 97

<212> PRT

<213> Homo sapiens

<400> 6684

Pro Arg Val Arg Ala Asp Ile Asn Thr Lys Trp Ala Ala Thr Arg Trp
 1 5 10 15

Ala Lys Lys Ile Glu Ala Arg Glu Arg Lys Ala Lys Met Thr Asp Phe
 20 25 30

Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn Arg Ile Ile
 35 40 45

Lys Asn Glu Val Lys Lys Leu Gln Lys Ala Ala Leu Leu Lys Ala Ser
 50 55 60

Pro Lys Lys Ala Pro Gly Thr Lys Gly Thr Ala Ala Ala Ala Ala Ala
 65 70 75 80

Ala Ala Ala Ala Ala Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala
 85 90 95

Asn

<210> 6685

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

5923

<400> 6685

Asn Ala Xaa Ile Ser Ser Leu Gly Ala Pro Gly Thr Gly Xaa Glu Phe
 1 5 10 15

Pro Gly Arg Pro Thr Arg Pro Leu Met Glu Lys Glu Phe Pro Gly Phe
 20 25 30

Leu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys Asp
 35 40 45

Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe Ser
 50 55 60

Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val His
 65 70 75 80

Met Lys Gln Lys Gly Lys Lys
 85

<210> 6686

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

5924

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6686

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Gly | Xaa | Gly | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Pro | Thr | Leu | Ser | Ser | Ala | Phe | Pro | Leu | Xaa | Thr | Ser | Thr | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Xaa | Lys | Tyr | Asp | Pro | Ser | Leu | Lys | Pro | Leu | Xaa | Xaa | Ser | Tyr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gln | Ala | Thr | Ser | Leu | Arg | Ile | Leu | Asn | Asn | Gly | His | Ala | Phe | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Leu | Asp | Asp | Ser | Xaa | Asp | Lys | Ala | Val | Leu | Lys | Gly | Gly | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Gly | Thr | Asn | Arg | Trp | Ile | Lys | Leu | His | Phe | Asn | Trp | Gly | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Gly | Gln | Arg | Xaa | Lys | Thr | Tyr | Xaa |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5925

100

105

<210> 6687

<211> 110

<212> PRT

<213> Homo sapiens

<220>

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

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<220>

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<222> (57)

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<220>

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5926

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6687

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Ser Ser Arg Leu Ala Phe Pro Lys Ala Thr Glu Glu Xaa Lys Ala Ser
 1             5             10             15

Lys Pro His His Glu Trp Pro Ser Gly Thr Xaa Phe Ala Arg Thr Gly
          20             25             30

Asp Pro Asn Ser Xaa Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala
          35             40             45

Glu Thr Ile Ser Gly Asn Gln Pro Xaa Ala Xaa Gly Arg Thr Lys Phe
 50             55             60

Gln Gly Gly Leu Asp Ala Ile Leu Val Lys Asn Pro Pro Gln Gln Asn
 65             70             75             80

Thr Thr Trp Pro Xaa Xaa Gln Lys Asn Arg Lys Gly Pro Gly Gly Thr
          85             90             95

Xaa Glu Gly Arg Pro Lys Xaa Phe Leu Gly Leu Gly Gln Thr
          100             105             110

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<210> 6688

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6688

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Gly Phe Asn Asp Glu Leu Glu Ala Phe Lys Glu Arg Val Arg Gly Arg
 1             5             10             15

Ala Lys Leu Arg Ile Glu Lys Ala Met Lys Glu Tyr Glu Glu Glu Glu
          20             25             30

Arg Lys Lys Arg Leu Gly Pro Gly Gly Leu Asp Pro Val Glu Val Tyr
          35             40             45

Glu Ser Leu Pro Glu Glu Leu Gln Lys Cys Phe Asp Val Lys Asp Val
          50             55             60

Gln Met Leu Gln Asp Ala Ile Ser Lys Met Asp Pro Thr Asp Ala Lys
 65             70             75             80

Tyr His Met Gln Arg Cys Ile Asp Ser Gly Leu Trp Val Pro Asn Ser
          85             90             95

```

5927

Lys Ala Lys Arg Arg Pro Arg Arg Glu Arg Arg Gln Val Leu Gly Thr
 100 105 110

His Tyr Trp Lys Leu Phe Pro Arg Arg Ala Met Arg Arg Met Ser Ser
 115 120 125

Val

<210> 6689

<211> 177

<212> PRT

<213> Homo sapiens

<220>

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<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6689

Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala Ser Leu Asn
 1 5 10 15

Asp Val Tyr Leu His Gln His Asp Lys Tyr Arg Tyr Asp Arg Tyr His
 20 25 30

Leu Ile Arg Asn Arg Lys Met Ser Asp Ile Met Phe Glu Trp Val Thr
 35 40 45

Gln Asn Ile Met Asn Gly Arg Gly Val Asn Arg Leu Asp Asp Val Asn
 50 55 60

Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Ile Arg Leu Phe Arg Gln
 65 70 75 80

Glu Leu Arg Asp Ala Ala Tyr His Phe Gln Gly Asp Ala Asp Asn Asp
 85 90 95

Gln Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser Ser Leu Leu
 100 105 110

Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu Gln Lys Leu Thr
 115 120 125

Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Ile Leu Val Arg Asn Ile
 130 135 140

Ile Gln Leu Leu Arg Glu Gly Lys Lys Val Glu Ile Ile Val Gly Asp
 145 150 155 160

5928

Lys Thr Xaa Asn Asp Phe Tyr Ile Pro Glu Asp Glu Pro Phe Lys Ile
 165 170 175

Ile

<210> 6690

<211> 93

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6690

His Glu Leu Val Arg Leu Xaa Gly Gly Cys Xaa Leu Leu Arg Cys Ile
 1 5 10 15

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
 20 25 30

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
 35 40 45

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
 50 55 60

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Lys
 65 70 75 80

Tyr Gly Gly Lys Arg Glu Ser Leu Thr Gln Gln Arg Leu
 85 90

<210> 6691

<211> 105

<212> PRT

<213> Homo sapiens

<220>

5929

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<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6691
Gly Val Thr Phe Pro Val Pro Gln Ser Xaa Asp Ser Leu Leu Arg Ala
1 5 10 15
Val Gly Pro Cys Pro Gln Gln Leu Gly Thr Gln Thr Thr Xaa Glu Arg
20 25 30
Glu Ser Gln Ala Ser Asn Thr Lys Val Thr Arg Asp Xaa Pro Lys Ser
35 40 45
Cys Asp Lys Thr Thr His Ala His Arg Xaa Arg Pro Glu Leu Leu Gly
50 55 60

5930

Gly Pro Gln Leu Leu Phe Xaa Gln Asn Pro Arg His Ala Met Ile Ser
 65 70 75 80

Arg Pro Leu Xaa His Met Arg Gly Gly Asp Xaa Ser His Glu Asp Pro
 85 90 95

Glu Ala Ser Gln Leu Asp Val Asp Xaa
 100 105

<210> 6692

<211> 113

<212> PRT

<213> Homo sapiens

<220>

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<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6692

Arg Arg Val Ser Pro Gly Lys Asn Phe Pro Pro Gly Gly Val Pro Gly
 1 5 10 15

Thr Pro Gln Thr Gly Arg Phe Ser Gly Ala Pro Gly Gly Gly Lys Arg
 20 25 30

Gly Pro Ser Leu Arg Lys Lys Lys Gly Gly Gly Pro Ala Gln Phe Gly
 35 40 45

Pro Xaa Ser Pro Lys Pro Gln Phe Arg Gly Gln Gly Pro Gly Ile Ser
 50 55 60

Pro Trp Val Leu Leu Gly Ile Gln Pro Gly Gly Trp Gly Glu Arg Gly
 65 70 75 80

Glu Thr Pro Ser Gly Arg Ser Pro Cys Arg Gly Xaa Ala Pro Leu Gly
 85 90 95

5931

Gly Gly Arg Thr Thr Ser Lys Leu Leu Glu Thr Xaa Ser Pro Glu Cys
100 105 110

Leu

<210> 6693

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

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<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (141)

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<220>

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<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

5932

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<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6693

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Ser | Tyr | Glu | Leu | Ser | Lys | Val | Glu | Gly | Lys | Thr | Gly | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Pro | Leu | Ser | Asp | Leu | Gly | Leu | Leu | Ser | Tyr | Arg | Ser | Tyr | Trp |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Ile | Leu | Glu | Ile | Leu | Met | Gly | Leu | Lys | Ser | Glu | Ser | Gly |
| | | 35 | | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Pro | Gln | Ile | Thr | Ile | Asn | Glu | Ile | Ser | Glu | Ile | Thr | Ser | Ile |
| | | 50 | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Glu | Asp | Val | Ile | Ser | Thr | Leu | Gln | Tyr | Leu | Asn | Leu | Ile | Asn |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Tyr | Lys | Gly | Gln | Tyr | Ile | Leu | Thr | Leu | Ser | Glu | Asp | Ile | Val | Asp |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Glu | Arg | Ala | Met | Leu | Lys | Arg | Leu | Leu | Arg | Ile | Arg | Leu | Gln |
| | | | | 100 | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ala | Xaa | Ile | Pro | Arg | Asp | Trp | Xaa | Lys | Lys | Gly | Gly | Xaa | Gly |
| | | 115 | | | | | | 120 | | | | | 125 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gln | Thr | Leu | Ala | Thr | Gly | Ile | Ala | Gln | Asp | Gly | Xaa | Gln | Gly | Leu |
| | | 130 | | | | | 135 | | | | | 140 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Leu | Asn | Ser | Pro | Xaa | Xaa | Ala | Pro | Xaa | Trp | Lys | Xaa | Pro | Thr |
| 145 | | | | | | 150 | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Thr | Phe | Lys | Gly | Lys | Met | Gly | Leu | Glu | Gly | Gln | Val | Gln | Lys |
| | | | | 165 | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Arg | Thr | Arg | Ala | Leu | Ala | Gly | Gly | Pro | Thr | Gly | Trp | Pro | Asn |
| | | | 180 | | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Ala | Lys | Leu | Pro | Gly | Leu | Arg | Pro | Thr | Phe | Lys | Gly | Gln | Xaa |
| | | 195 | | | | | 200 | | | | | | 205 | | |

5933

Gly Pro Lys Ala Gln Gly Phe
210 215

<210> 6694

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6694

Gly Tyr Thr Arg Ala Glu Tyr Glu Ser Glu Ala Glu Gly Val Met Ala
1 5 10 15

Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val
20 25 30

Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met Leu Pro
35 40 45

Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly
50 55 60

Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser Val Lys
65 70 75 80

Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Pro Lys
85 90

<210> 6695

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6695

Gly Ser Val Ser Pro Val Pro Val Ala Pro Leu Pro Pro Xaa Thr Met
1 5 10 15

5934

Gly Pro Gly Pro Arg Leu Leu Leu Pro Leu Val Leu Cys Val Gly Leu
20 25 30

Gly Ala Leu Val Phe Ser Ser Gly Ala Glu Gly Phe Arg Lys Arg Gly
35 40 45

Pro Ser Val Thr Ala Lys Val Phe Phe Asp Val Arg Ile Gly Asp Lys
50 55 60

Asp Val Gly Arg Ile Val Ile Gly Leu Phe Gly Lys Val Val Pro Lys
65 70 75 80

Thr Val Glu Asn Phe Val Ala Leu Ala Thr Gly Glu Lys Gly Tyr Gly
85 90 95

Tyr Lys Gly Ser Lys Phe Ser Ser Cys His Gln Gly Phe His Asp Xaa
100 105 110

<210> 6696

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

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<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

5935

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6696

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Asp | Val | Ser | Arg | Glu | Ser | Thr | Tyr | Gln | Gly | His | His | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Lys | Gly | Leu | Arg | Tyr | Gly | Ile | Ile | Xaa | Phe | Xaa | Thr | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Phe | Phe | Phe | Xaa | Gly | Phe | Phe |
| | | 35 | | | | | 40 | |

<210> 6697

<211> 41

<212> PRT

<213> Homo sapiens

<220>

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<222> (5)

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<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6697

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Asp | Val | Xaa | Arg | Glu | Ser | Thr | Tyr | Gln | Gly | His | His | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Lys | Gly | Leu | Arg | Tyr | Gly | Ile | Ile | Leu | Phe | Ile | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Phe | Phe | Phe | Ala | Gly | Phe | Phe |
| | | 35 | | | | | 40 | |

<210> 6698

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

5936

<220>

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6698

Ala His His Ser Leu Ile Xaa Asn Asn Arg Asn Gln Ile Ile Gln Ala
 1 5 10 15

Leu Leu Ile Thr Ile Leu Leu Gly Leu Tyr Phe Thr Leu Leu Gln Ala
 20 25 30

Ser Xaa Tyr Phe Glu Ser Pro Phe Thr Ile Ser Asp Gly Ile Tyr Gly
 35 40 45

Ser Thr Phe Phe Val Ala Thr Gly Phe His Gly Leu His Val Ile Ile
 50 55 60

Gly Ser Thr Phe Leu Thr Ile Cys Phe Ile Arg Gln Leu Ile Phe His
 65 70 75 80

Phe Thr Ser Lys His His Phe Gly Phe Xaa Thr Ala Ala
 85 90

<210> 6699

<211> 41

<212> PRT

<213> Homo sapiens

<400> 6699

Trp Arg Asp Val Thr Arg Glu Ser Thr Tyr Gln Gly His His Thr Pro
 1 5 10 15

Pro Val Gln Lys Gly Leu Arg Tyr Gly Ile Ile Leu Phe Ile Thr Ser
 20 25 30

Glu Val Phe Phe Phe Ala Gly Phe Phe
 35 40

<210> 6700

<211> 39

<212> PRT

5937

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

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<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6700

Ala Gly Ile Leu Xaa Thr Ala Leu Ser Leu Leu Ile Arg Ala Glu Leu
1 5 10 15

Gly Gln Pro Xaa Asn Leu Leu Xaa Asn Glu His Ile Tyr Asn Val Ile
20 25 30

Val Thr Ala Met His Leu Leu
35

<210> 6701

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6701

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu
1 5 10 15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile
20 25 30

Lys Ser Ile Gly His Gln Trp Tyr
35 40

<210> 6702

<211> 40

<212> PRT

<213> Homo sapiens

5938

<400> 6702

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu
 1 5 10 15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile
 20 25 30

Lys Ser Ile Gly His Gln Trp Tyr
 35 40

<210> 6703

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6703

Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu
 1 5 10 15

Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln
 20 25 30

Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu
 35 40 45

Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Xaa Val Phe Thr Leu
 50 55 60

<210> 6704

<211> 56

<212> PRT

<213> Homo sapiens

<400> 6704

Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile
 1 5 10 15

Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val
 20 25 30

5939

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile
 35 40 45

Thr Ser Gln Asp Val Leu His Ser
 50 55

<210> 6705

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6705

His Val Thr Leu Trp Phe Leu Cys Phe Ile Asn Tyr Leu Ile Tyr Gln
 1 5 10 15

Tyr Gly Thr Arg Phe Xaa Lys Lys Xaa Asp Ser Xaa Asp Pro Tyr Ile
 20 25 30

Tyr Thr Pro Phe Gly Thr Gly Pro Lys Thr Ala Leu Ala
 35 40 45

<210> 6706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5940

<400> 6706

His Leu Trp Xaa Leu Ile Glu Gly Gly Ala His Ile Tyr Val Cys Gly
1 5 10 15

Asp Ala Arg Asn Met Ala Arg Asp Val Gln Asn Thr Phe Tyr Asp Ile
20 25 30

Val Ala Glu Leu Gly Ala Met Glu His Ala Gln Ala Val Asp Tyr Ile
35 40 45

Lys Lys Leu Met Thr Lys Gly Arg Tyr Ser Leu Asp Val Trp Ser
50 55 60

<210> 6707

<211> 158

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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5941

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 <400> 6707
 Xaa Pro Pro Glu Leu His Asp Xaa Ala Lys Xaa Pro Tyr Thr Glu Ala
 1 5 10 15
 Val Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val
 20 25 30
 Pro His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro
 35 40 45
 Lys Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro
 50 55 60
 His Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp
 65 70 75 80
 Ala Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu
 85 90 95
 Gly Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Xaa Xaa
 100 105 110

5942

Pro Leu Phe Thr Thr Ile Leu Gln Asn Phe Xaa Met Xaa Ser Pro Val
 115 120 125

Xaa Pro Glu Asp Ile Xaa Leu Thr Pro Xaa Glu Xaa Gly Val Gly Gln
 130 135 140

Lys Asn Pro Pro Thr Tyr Gln Asn Pro Xaa Ser Trp Pro Arg
 145 150 155

<210> 6708

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6708

Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp Phe Gly Pro Pro Ala Ser
 1 5 10 15

Thr Pro Ala Ser Thr Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys
 20 25 30

Val Ser Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser
 35 40 45

Gly Pro Gly Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Lys
 50 55 60

Gln Gln Leu Ser Arg Trp Pro Gly Arg Ala Ala Met Val Gly Pro Ala
 65 70 75 80

Ala Trp Glu Ala Ser Pro Glu Leu Arg
 85

<210> 6709

<211> 138

<212> PRT

<213> Homo sapiens

<400> 6709

Arg Ser Trp Gly Ala Thr Gln Pro Gly Ser Gln Ala Pro Pro Arg Gln
 1 5 10 15

Leu Ser Arg Phe Ser His Ser Phe Pro Thr Arg Leu Leu Ser Pro Met
 20 25 30

Ala His Ala Thr Leu Ser Ala Ala Pro Ser Asn Pro Arg Leu Leu Arg
 35 40 45

5943

Val Ala Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala Ala
 50 55 60

Gly Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu
 65 70 75 80

Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro
 85 90 95

Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly
 100 105 110

Lys Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile
 115 120 125

Glu Lys Ile Leu Asn Lys Gly Ser Thr Asn
 130 135

<210> 6710

<211> 76

<212> PRT

<213> Homo sapiens

<220>

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<222> (62)

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<220>

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<222> (75)

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<400> 6710

Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser
 1 5 10 15

Thr Gly Cys Pro Arg Arg Met Val Lys Val Lys Asp Cys Thr Pro Trp
 20 25 30

Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile
 35 40 45

Trp Val Ile Phe Val Val Thr Leu Val Val Pro Leu Leu Xaa Val Ala
 50 55 60

Val Leu Ile Val Trp Cys Cys Ile Gly Ser Xaa Cys
 65 70 75

5944

<210> 6711

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6711

Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu Phe Glu Ser
1 5 10 15

Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala
20 25 30

Pro Thr Glu Glu Gly Lys Lys Glu Leu Leu Phe Leu Ser Asn Ala Asn
35 40 45

Pro Ser Leu Leu Glu Arg His Cys Ala Tyr Leu
50 55

<210> 6712

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<221> SITE

<222> (7)

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5945

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<222> (39)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6712

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Pro | Arg | Ser | Gly | Xaa | Pro | Gly | Ser | Thr | His | Ala | Ser | Asp | Pro |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ile | Phe | Xaa | Lys | Pro | Ala | Lys | Thr | Ser | Lys | Xaa | Pro | Gly | Ser |
| | | 20 | | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Glu | Glu | Leu | Leu | Xaa | Xaa | Thr | Glu | Thr | Val | Val | Thr | Glu | Tyr |
| | | 35 | | | | | | 40 | | | | | | 45 | |

5946

Leu Asn Ser Gly Asn Ala Asn Glu Ala Val Asn Gly Val Arg Glu Met
 50 55 60

Arg Ala Pro Lys His Phe Leu Pro Glu Met Leu Ser Lys Val Ile Ile
 65 70 75 80

Leu Ser Leu Asp Xaa Xaa Xaa Glu Asp Lys Xaa Lys Ala Ser Ser Leu
 85 90 95

Ile Xaa Leu Leu Lys Gln Glu Gly
 100

<210> 6713

<211> 43

<212> PRT

<213> Homo sapiens

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<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6713

Ala Leu Phe Asn Xaa Gly Ser Pro Xaa Leu His Glu Phe Arg Ser Xaa
 1 5 10 15

Xaa Thr Leu Phe Ile Val Leu Val Asn Asn Asp Glu Gly Glu Trp Asn
 20 25 30

5947

Gly Pro Pro Pro Xaa Cys Lys Arg Lys Asn Leu
 35 40

<210> 6714

<211> 34

<212> PRT

<213> Homo sapiens

<400> 6714

Met Cys Ser Leu Pro Phe Gln Ile Lys Ile Thr His Lys Asn Gln Met
 1 5 10 15

Pro Met Leu Met Gly Pro Pro Pro Arg Ser Thr Asn Phe Phe Gly Phe
 20 25 30

Leu Ser

<210> 6715

<211> 122

<212> PRT

<213> Homo sapiens

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<222> (107)

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<222> (111)

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<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6715

Gly Gly Asp Gly Thr Val Gly Trp Val Leu Gly Ala Leu Glu Glu Thr
 1 5 10 15

5948

Arg Tyr Arg Leu Ala Cys Pro Glu Pro Ser Val Ala Ile Leu Pro Leu
20 25 30

Gly Thr Gly Asn Asp Leu Gly Arg Val Leu Arg Trp Gly Ala Gly Tyr
35 40 45

Ser Gly Glu Asp Pro Phe Ser Val Leu Leu Ser Val Asp Glu Ala Asp
50 55 60

Ala Val Leu Met Asp Arg Trp Thr Ile Leu Leu Asp Ala His Glu Ala
65 70 75 80

Gly Ser Ala Glu Asn Asp Thr Ala Xaa Ala Glu Pro Pro Lys Ile Val
85 90 95

Gln Met Ser Asn Tyr Leu Trp His Trp His Xaa Pro Gly Leu Xaa Leu
100 105 110

Asp Phe Thr Lys His Arg Xaa Glu Glu Pro
115 120

<210> 6716

<211> 83

<212> PRT

<213> Homo sapiens

<220>

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5949

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<221> SITE

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<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (62)

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<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6716

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Met | Ala | Glu | Glu | Gly | Xaa | Pro | Ala | Pro | Leu | Pro | Pro | Glu | Asp | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Ala | Ala | Ser | Leu | Ala | Pro | Thr | Pro | Xaa | Ser | Pro | Xaa | Leu | Glu |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Phe | Asn | Leu | Thr | Ser | Glu | Pro | Ser | Asp | Xaa | Ala | Leu | Asp | Leu | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Leu | Gln | Gln | Xaa | Pro | Asp | Ala | Phe | Xaa | Xaa | Gly | Xaa | Pro | Glu |
| | 50 | | | | | 55 | | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Lys | Lys | Lys | Pro | Lys | Asn | Pro | Gln | Arg | Lys | His | Gln | Gly | Xaa |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

Thr Arg Gly

<210> 6717

<211> 69

5950

<212> PRT

<213> Homo sapiens

<400> 6717

Gly Cys Thr Pro Leu Phe Ile Pro Lys Leu Ala Gly Ser His Cys Ser

1

5

10

15

Gly Ala Lys Gly Gly Lys Lys Ser Asp Gln Ser Asn Cys Ser Leu Glu

20

25

30

Pro Leu Leu Gln Gln Leu Ser Thr Ser Tyr Lys Thr Met Pro Asp Val

35

40

45

Cys Gln Ala Ser Asn Leu Leu Pro Ala Leu Arg Ser Leu Asn Cys Cys

50

55

60

Leu Pro Ser Ser Leu

65

<210> 6718

<211> 106

<212> PRT

<213> Homo sapiens

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<222> (2)

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<220>

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

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5951

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 <222> (106)
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<400> 6718
 Gln Xaa Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Xaa Gln Leu Phe
 1 5 10 15
 Leu Ala Phe Asn Met Leu Met Asp Arg Pro Leu Glu Glu Ala Val Lys
 20 25 30
 Ile Xaa Gly Ala Xaa Leu Lys Tyr Leu Pro Ser Ile Ile Asn Asp Val
 35 40 45
 Lys Leu Val Phe Asp Pro Val Glu Leu Xaa Val Leu Phe Cys Lys Phe
 50 55 60
 Ile Xaa Ser Ile Pro Asp Asn Gln Xaa Val Xaa Xaa Lys Leu Asn Cys
 65 70 75 80

5952

Met Thr Lys Ile Val Glu Ser Thr Leu Phe Xaa Gln Ser Glu Cys Xaa
 85 90 95

Glu Val Leu Leu Pro Leu Leu Thr Asp Xaa
 100 105

<210> 6719

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6719

Val Ala Val Lys Met Ala Leu Val Ala Ser Val Arg Val Pro Ala Arg
 1 5 10 15

Val Leu Leu Arg Ala Gly Ala Arg Leu Pro Gly Ala Ala Leu Gly Arg
 20 25 30

Thr Glu Arg Ala Ala Gly Gly Gly Asp Gly Ala Arg Arg Phe Gly Ser
 35 40 45

Gln Arg Val Leu Val Glu Pro Asp Ala Gly Ala Gly Val Ala Val Met
 50 55 60

Lys Phe Lys Asn Pro Pro Val Asn Ser Leu Ser Leu Glu Phe Leu Thr
 65 70 75 80

Glu Leu Val Ile Ser Leu Arg Ser Trp Arg Met Thr Arg Ala Ser Ala
 85 90 95

Val Xaa Phe

<210> 6720

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

5953

<400> 6720

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Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
 1             5             10             15

Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr
      20             25             30

Glu Glu Lys Leu Thr Pro Val Leu Leu Ala Lys Gln Leu Ala Ala Leu
      35             40             45

Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro Asp
      50             55             60

Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly Ala Leu Ala Lys Arg Leu
      65             70             75             80

Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser Lys Gly Gly Ser Gly Gly
      85             90             95

Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser Leu Val Thr Tyr Glu Leu
      100            105            110

His Ser Arg Pro Glu Gln Asp Lys Val Leu Ser Lys Leu Xaa Lys Val
      115            120            125

Gln Asn Leu Lys Ser Ala
      130

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<210> 6721

<211> 69

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5954

<400> 6721

Xaa Asn Lys Xaa Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
 1 5 10 15
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Lys Thr Ser Leu
 20 25 30
 Asn Leu Ser Leu Asn Leu Ile Phe Glu Leu Pro Ser Leu Phe Met Val
 35 40 45
 Glu Gly Lys Gln Phe Arg Ser Leu Asp Tyr Glu Phe Cys Glu Thr His
 50 55 60
 Asp Ser Thr Ile Thr
 65

<210> 6722

<211> 109

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (94)

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<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6722

Leu Leu Pro Ser Glu Ser Pro Met Ala His Trp Trp Trp Trp Thr Ala
 1 5 10 15

5955

Cys Gln Ala Cys Asp Ser Ala Ala Ala Gly His Cys Arg Ala His Gln
 20 25 30
 Ala Cys Ala Asp Asp Glu Gln Asp Val Asn Val Ile Ile Ser Thr Tyr
 35 40 45
 Gly Glu Gly Glu Ser Gly Pro Met Gly Asn Ile Met Ile Asp Pro Val
 50 55 60
 Leu Gly Thr Val Gly Phe Gly Ser Gly Leu His Gly Trp Ala Phe Thr
 65 70 75 80
 Leu Lys Gln Phe Ala Glu Met Tyr Val Xaa Lys Phe Xaa Xaa Lys Gly
 85 90 95
 Glu Gly Xaa Leu Gly Pro Xaa Glu Arg Ala Lys Lys Val
 100 105

<210> 6723

<211> 50

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<222> (13)

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<222> (28)

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5956

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<222> (38)

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<222> (45)

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<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6723

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Cys | Thr | Ile | Thr | Gly | Leu | Thr | Xaa | Trp | Asp | Pro | Xaa | Cys | Glu | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Arg | Gly | Asp | Lys | Phe | Val | Leu | Arg | Ser | Xaa | Tyr | Ser | Ser | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Met | Xaa | Val | Ser | Xaa | Ser | Met | Ile | Ser | Asn | Glu | Xaa | Xaa | Val | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | |
|-----|-----|
| Ile | Leu |
| | 50 |

<210> 6724

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6724

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Ala | Trp | Ala | Pro | Pro | Pro | Leu | Ser | Pro | Trp | Ser | Ser | Cys | Lys |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Arg | Met | Ser | Gln | Ala | Glu | Phe | Glu | Lys | Ala | Ala | Glu | Glu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Leu | Lys | Thr | Lys | Pro | Ser | Asp | Glu | Glu | Met | Leu | Phe | Ile | Tyr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Tyr | Lys | Gln | Ala | Thr | Val | Gly | Asp | Ile | Asn | Thr | Glu | Arg | Pro |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5957

| | | | | |
|---|-----|----|-----|----|
| 50 | | 55 | | 60 |
| Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu | | | | |
| 65 | | 70 | | 75 |
| | | | | 80 |
| Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys | | | | |
| | 85 | | 90 | 95 |
| Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile | | | | |
| | 100 | | 105 | |

<210> 6725

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

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<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (71)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (104)

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<222> (110)

5958

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6725

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Cys | Arg | Trp | Leu | Val | Ser | Ala | Thr | Cys | Val | Gly | Thr | Ala | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Met | Ser | Ser | Gly | Asn | Ala | Lys | Ile | Gly | His | Pro | Ala | Pro | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Ala | Thr | Ala | Val | Met | Pro | Asp | Gly | Gln | Phe | Lys | Asp | Ile | Ser |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Asp | Tyr | Lys | Gly | Lys | Tyr | Val | Val | Phe | Phe | Phe | Tyr | Pro | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Thr | Phe | Val | Cys | Xaa | Thr | Glu | Ile | Ile | Ala | Phe | Ser | Asp | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Glu | Phe | Lys | Lys | Leu | Asn | Cys | Gln | Val | Ile | Gly | Ala | Ser | Val |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | His | Phe | Cys | His | Xaa | Xaa | Trp | Val | Asn | Thr | Pro | Xaa | Lys | Gln |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Leu | Gly | Pro | Met | Asn | Ile |
| | | 115 | | | | 120 | |

<210> 6726

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5959

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6726

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Xaa | Ala | Pro | Ala | Val | Pro | Val | Arg | Asn | Ser | Arg | Val | Asp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Arg | Thr | Xaa | Xaa | Val | Val | Asn | Cys | Phe | Val | Asn | Asn | Asn | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Gln | Cys | Thr | Ser | Val | Gly | Ala | Gln | Asn | Thr | Val | Ile | Cys | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Ala | Ala | Lys | Cys | Leu | Val | Met | Lys | Ala | Glu | Met | Asn | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Gly | Arg | Arg | Ala | Lys | Pro | Glu | Gly | Ala | Leu | Gln | Asn | Asn | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Tyr | Asp | Pro | Asp | Cys | Asp | Glu | Ser | Gly | Leu | Phe | Lys | Ala | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Asn | Gly | Thr | Ser | Met | Cys | Trp | Cys | Val | Asn | Thr | Ala | Gly | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Thr | Asp | Lys | Asp | Thr | Glu | Ile | Thr | Cys | Ser | Glu | Arg | Val | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Trp | Ile | Ile | Ile | Glu | Leu | Lys | His | Lys | Ala | Arg | Glu | Lys | Pro |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Ser | Lys | Ser | Leu | Arg | Thr | Ala | Leu | Gln | Lys | Glu | Ile | Thr | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Gln | Leu | Asp | Pro | Lys | Phe | Ile | Thr | Ser | Ile | Leu | Tyr | Glu | Asn |
| | | | 165 | | | | | | 170 | | | | | 175 | |

5960

Asn Val Ile Thr Ile Asp Leu Val Gln Asn Ser Ser Xaa Lys Asn Ser
 180 185 190

Glu

<210> 6727

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6727

His Val Val Glu Gly Thr Pro Ala Gly Thr Gly Ser Gly Ile Pro Gly
 1 5 10 15

Tyr Leu Ile Tyr Leu Lys Phe Lys Ala Thr Tyr Asp Gly Asn His Asp
 20 25 30

Thr Phe Arg Val Glu Phe Leu Val Val Pro Val Gly Gly Leu Ser Phe
 35 40 45

Leu Val Asn His Asp Phe Ser Pro Leu Glu Ile Leu Trp Thr Phe Ser
 50 55 60

Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser
 65 70 75 80

Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu
 85 90 95

Gly Leu Tyr Arg Ala Leu Tyr Leu Val Asn Trp Xaa Trp Arg Phe Tyr
 100 105 110

Phe Glu Gly Phe Phe Asp Leu Ile Ala Val Val Ala Gly Val Val Gln
 115 120 125

Thr Ile Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Gln Lys Tyr Ser
 130 135 140

5961

Arg Glu Arg Ser Ser Val Xaa Gln His
145 150

<210> 6728

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

5962

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6728
Pro Ser Cys Gly Ala Gly His Thr Ala Gly Gly Gly Arg Gly Arg Xaa
1 5 10 15
Pro Xaa Ser Trp Pro Pro Pro Val Glu Xaa Val Thr Leu Xaa Asp Leu
20 25 30

5963

Ser Gln Leu Ile Ile Arg Asn Cys Xaa Ser Phe Asp Ile His Xaa Ile
 35 40 45
 His Val Cys Leu His Leu Xaa Val Leu Leu Gly Phe Pro Ser Asp Gly
 50 55 60
 Pro Leu Val Cys Ala Leu Xaa Xaa Glu Xaa Xaa Leu Arg Leu Pro Pro
 65 70 75 80
 Lys Ala Xaa Ser Pro Phe Ala Thr Pro Ser Pro Lys Ser Asn Gly Xaa
 85 90 95
 Arg Thr Xaa Ser Pro Arg Asp Gly Ala Pro Trp Pro Ile Thr Gly Pro
 100 105 110
 Gly Pro Val Xaa Gly Thr Pro Xaa Phe Xaa Glu Asn Pro Cys Pro Leu
 115 120 125
 Pro Gly Trp Phe Gln Glu Thr
 130 135

<210> 6729

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5964

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6729

Thr Gln Pro Thr Val Cys Thr Asp Ala Pro Ser Leu Leu Pro Leu Ser

1 5 10 15

Arg Leu His Leu Arg Gly Ser Trp Asp Arg Arg Ser Val Ala Asn Met

20 25 30

Gln Leu Phe Val Arg Ala Gln Glu Leu His Thr Phe Glu Val Thr Gly

35 40 45

Gln Glu Thr Val Ala Gln Ile Lys Ala His Val Ala Ser Leu Glu Gly

50 55 60

Ile Ala Pro Glu Asp Gln Val Val Leu Leu Ala Gly Ala Pro Leu Glu

65 70 75 80

Asp Glu Ala Thr Leu Gly Gln Cys Gly Val Glu Ala Leu Thr Thr Leu

85 90 95

Glu Val Ala Gly Arg Met Leu Gly Gly Lys Val His Gly Ser Leu Ala

100 105 110

Arg Ala Gly Lys Val Arg Gly Gln Thr Pro Lys Val Ala Lys Gln Glu

115 120 125

Lys Lys Lys Lys Lys Thr Gly Arg Ala Lys Arg Arg Met Gln Xaa Asn

130 135 140

Arg Xaa Phe Val Xaa Xaa Xaa Pro Pro Leu Ala Arg Arg

145 150 155

<210> 6730

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

5965

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6730

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Asp | Gln | Ile | Thr | Ala | Val | Arg | Lys | Phe | Ile | Xaa | Met | Gly | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Glu | Lys | Arg | Ile | Ala | Ile | Trp | Gly | Trp | Ser | Tyr | Gly | Gly | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ser | Leu | Ala | Leu | Ala | Ser | Gly | Thr | Gly | Leu | Phe | Lys | Cys | Gly |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Val | Ala | Pro | Val | Ser | Ser | Trp | Glu | Tyr | Tyr | Ala | Ser | Val | Tyr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | Arg | Phe | Met | Gly | Xaa | Pro | Xaa | Lys | Asp | Asp | Asn | Leu | Glu | His |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | Asn | Ser | Thr | Val | Met | Ala | Arg | Ala | Glu | Tyr | Phe | Arg | Asn | Val |
| | | | | 85 | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Leu | Leu | Ile | His | Gly | Thr | Ala | Asp | Asp | Asn | Val | His | Phe | Gln |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Gln | Ile | Ala | Lys | Ala | Leu | Val | Asn | Ala | Gln | Val | Asp | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Met | Trp | Tyr | Ser | Asp | Gln | Asn | His | Gly | Leu | Ser | Gly | Leu | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asn | His | Leu | Tyr | Thr | His | Met | Thr | His | Phe | Leu | Lys | Gln | Cys | Phe |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

5966

Ser Leu Ser Asp

<210> 6731

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6731

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Gly | Arg | Xaa | Gln | Cys | Xaa | Asn | Thr | Leu | Gln | Thr | Asn | Ala | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Tyr | Leu | Glu | Gln | Val | Lys | Arg | Xaa | Xaa | Xaa | | |
| | | | 20 | | | | | 25 | | | |

<210> 6732

<211> 61

5967

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6732

Ser Ala Ile Ala Ser Xaa Arg Tyr Lys Arg Phe Xaa Ile Arg Xaa Arg

1

5

10

15

Ile Lys Met Gln Xaa Asp Xaa Val Arg Ser Val Ile Gln Asn Leu Thr

20

25

30

Glu Glu Gln Ser Met Val Leu Cys Ala Ala Xaa Xaa Lys Ala Gly Ser

5968

35 40 45

Met Xaa Leu His Gln Asp Asn Ser His Thr Pro Val Ser
50 55 60

<210> 6733
<211> 38
<212> PRT
<213> Homo sapiens

<400> 6733
Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp
1 5 10 15
Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile
20 25 30
Glu Asn Val Ala Ser Leu
35

<210> 6734
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5969

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6734

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Glu | Pro | Ile | Pro | Xaa | Lys | Glu | Leu | Glu | Arg | Gly | Val | Ala | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Gly | Leu | Leu | Cys | Leu | Leu | Ser | Asp | His | Val | Asp | Lys | Arg | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Ala | Ala | Xaa | Ala | Asn | Leu | Lys | Val | Ile | Ser | Thr | Met | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Asp | His | Leu | Ala | Leu | Asp | Glu | Ile | Lys | Lys | Arg | Gly | Ile | Arg |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Tyr | Thr | Pro | Asp | Val | Leu | Thr | Asp | Thr | Thr | Val | Glu | Leu | Ala |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Val | Xaa | Leu | Leu | Leu | Thr | Thr | Xaa | Arg | Arg | Leu | Xaa | Glu | Ala | Ile | |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6735

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5970

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6735

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Cys | Leu | Ala | Asp | Leu | Ala | Asp | Arg | Xaa | Tyr | Lys | Gln | Ala | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Cys | Leu | Leu | Xaa | Xaa | Ser | Phe | Asp | His | Cys | Asp | Phe | Pro | Glu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 6736

<211> 97

<212> PRT

<213> Homo sapiens

<220>

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<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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5971

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<220>
<221> SITE

5972

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6736

Cys Pro Trp Pro Leu Lys Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln

1

5

10

15

Gly Ile His Pro Lys Asn Ile Gln Ser Val Asn Xaa Lys Ser Pro Gly

20

25

30

Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg

35

40

45

Lys Xaa Xaa Leu Gln Ser Cys Met Pro His Xaa Leu Xaa Xaa Leu Ser

50

55

60

Xaa Lys Xaa Val Xaa Gln Trp Gln Ile Gln Leu Xaa Gln Lys Gly Gly

65

70

75

80

Arg Lys Val Xaa Trp Trp Val Xaa Ala Xaa Arg Glu Xaa Leu Xaa Leu

85

90

95

Phe

<210> 6737

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

5973

<400> 6737

Ser Pro Gly Pro His Xaa Ala Gln Thr Gly Val Ile Ala Thr Leu Lys
 1 5 10 15

Xaa Gly Arg Lys Ala Cys Leu Asn Pro Ala Xaa Pro Ile Val Met Lys
 20 25 30

Xaa Ile

<210> 6738

<211> 18

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6738

Arg Xaa Val Ala Glu Asp Xaa His Leu Trp Asn Asp Ser Gln Pro Leu
 1 5 10 15

Lys Leu

<210> 6739

<211> 66

<212> PRT

<213> Homo sapiens

<400> 6739

Arg Gly Cys His Ser Asp Phe Leu Pro Glu Leu Leu Leu Ala Pro Ser
 1 5 10 15

Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val Gly Val Ile
 20 25 30

Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys Ile Thr Lys
 35 40 45

5974

Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp Leu Lys Val
 50 55 60

Val Gln
 65

<210> 6740

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6740

Arg His Glu Glu Phe Ala Arg Tyr Thr Thr Pro Glu Asp Ala Thr Pro
 1 5 10 15

Glu Pro Gly Glu Asp Pro Arg Val Thr Arg Ala Lys Tyr Phe Ile Arg
 20 25 30

Asp Glu Phe Leu Arg Ile Ser Thr Ala Ser Gly Asp Gly Arg His Tyr
 35 40 45

Cys Tyr Pro His Phe Thr Cys Ala Val Asp Thr Glu Asn Ile Arg Arg
 50 55 60

Val Phe Asn Asp Cys Arg Asp Ile Ile Gln Arg Met His Leu Arg Gln
 65 70 75 80

Tyr Glu Leu Leu Xaa Glu Gly Asn Pro Gln Ile
 85 90

<210> 6741

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5975

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6741
Asp Leu Tyr Lys Lys Xaa Gly Lys Leu Glu Phe Leu Gly Leu Asp Asn
1 5 10 15
Ala Gly Gln Asn Xaa Xaa Xaa
20

<210> 6742
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)

5976

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6742

Ala Gln Gln Gly Ala Pro Cys Pro Ser Arg Cys Gly Glu Xaa Pro Ala
1 5 10 15

Cys His Trp Leu Pro Pro Asp Leu Thr Glu Pro Pro Xaa Ala Gln Leu
20 25 30

Xaa Xaa Xaa Phe
35

<210> 6743

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6743

Thr Arg Pro Asp Lys Xaa Val Lys Asp Leu Val Ile Leu Leu Tyr Glu
1 5 10 15

Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Xaa Gln Thr His
20 25 30

Ala Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu
35 40 45

Asp Asp Pro Thr Ala Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met
50 55 60

5977

Pro Pro Leu Glu Gly Asp Asp Xaa Thr Ser Arg Met Glu Xaa Val Asp
 65 70 75 80

<210> 6744

<211> 83

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6744

Gly Xaa Ala Ser Pro Leu Gly Pro Ala Ala Leu Arg Asp Ser Glu Glu
 1 5 10 15

Lys Leu Ala Pro Gly Gly Arg Gly Ser Val Asn Met Gly Lys Gly Asp
 20 25 30

Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln
 35 40 45

Thr Cys Arg Glu Arg Ala Gln Glu Arg Asn Thr Arg Thr Leu Pro Ser
 50 55 60

5978

Ile Ser Xaa Glu Phe Ser Xaa Xaa Phe Phe Gly Lys Met Glu Lys Pro
65 70 75 80

Phe Xaa Pro

<210> 6745

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5979

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6745

Leu Val Ala Ala Leu Ala Pro Met Ser Leu Pro Asn Ser Ser Cys Leu
 1 5 10 15

Leu Glu Asp Lys Met Cys Glu Gly Asn Lys Thr Thr Met Ala Ser Pro
 20 25 30

Gln Leu Met Pro Leu Val Val Val Leu Ser Thr Ile Cys Leu Val Thr
 35 40 45

Val Gly Leu Asn Leu Leu Val Leu Tyr Ala Val Arg Ser Glu Arg Lys
 50 55 60

Leu His Thr Val Gly Asn Leu Tyr Ile Val Ser Xaa Ser Val Ala Asp
 65 70 75 80

Leu Ile Val Gly Ala Val Val Met Pro Met Asn Ile Leu Tyr Leu Leu
 85 90 95

Met Ser Lys Trp Xaa Xaa Gly Arg Pro Xaa Cys Leu Phe Trp Xaa Ser
 100 105 110

Met Asp Tyr Val Ala Ser Thr Ala Ser Ile Phe Xaa Val Phe Ile Leu
 115 120 125

Cys Ile Asp Arg Tyr Arg Ser Val His Asn Pro Ser Gly Thr Leu Xaa
 130 135 140

Xaa Val Pro Lys Pro Glu
 145 150

<210> 6746

<211> 30

<212> PRT

<213> Homo sapiens

<400> 6746

Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg
 1 5 10 15

Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly Asp Glu
 20 25 30

<210> 6747

5980

<211> 128
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6747

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Glu | Glu | His | Lys | Lys | Lys | His | Pro | Asp | Ala | Ser | Val | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Glu | Phe | Ser | Lys | Lys | Cys | Ser | Glu | Arg | Trp | Lys | Thr | Met | Ser |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Glu | Lys | Gly | Lys | Phe | Glu | Asp | Met | Ala | Lys | Ala | Asp | Lys | Ala |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Glu | Arg | Glu | Met | Lys | Thr | Tyr | Ile | Pro | Pro | Lys | Gly | Glu | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Phe | Lys | Asp | Pro | Asn | Ala | Pro | Lys | Arg | Pro | Pro | Ser | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Leu | Phe | Cys | Ser | Glu | Tyr | Arg | Pro | Lys | Ile | Lys | Gly | Glu | His |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Leu | Ser | Ile | Gly | Asp | Val | Ala | Lys | Lys | Leu | Gly | Glu | Met | Trp |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Thr | Ala | Ala | Xaa | Asp | Lys | Xaa | Leu | Xaa | Lys | Lys | Xaa | Ala | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5981

<210> 6748
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6748
Gly Thr Arg Xaa Glu Leu Ile Arg Pro Glu Arg Asn Thr Leu Val Val
1 5 10 15
Ser Phe Val Asp Leu Glu Gln Phe Asn Gln Gln Leu Ser Thr Thr Ile
20 25 30
Gln Glu Glu Phe Tyr Arg Val Tyr Pro Tyr Leu Cys Arg Ala Leu Lys
35 40 45
Thr Phe Val Lys Asp Ser Gly Arg Arg Thr Tyr Lys
50 55 60

<210> 6749
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
<222> (18)

5982

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6749

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Asn | Arg | Xaa | Ser | Ser | Cys | Ser | Ser | Cys | Xaa | Met | Pro | Cys | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Glu | Arg | Gln | Xaa | Ser | Ser | Gln | Pro | Ala | Leu | Ser | Leu | Ala | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Xaa | Xaa | Arg | Gly | Trp | Tyr | Ile | Ser | Ala | Ser | Ala | Xaa | Gly | Asp |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Gly | Trp | Leu | Asn | Ala | Arg | Met | Leu | Gln | Xaa | Cys | Ser | Val | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Ser | Leu | Asn | Gln | Val | Met | Val | Asp | Asp | Ala | Gly | Val | Pro | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Ser | Tyr | Ile | Gly | Val | Met | Val | Leu | Leu | Tyr | Lys | Pro | Gly | Leu |
| | | | | 85 | | | | | | 90 | | | | 95 | |

5983

Thr Asp Glu Pro Glu Ala Val Gly Glu
 100 105

<210> 6750

<211> 121

<212> PRT

<213> Homo sapiens

<400> 6750

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Tyr Asn Gln
 20 25 30

Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro Ala Leu Ala Tyr
 35 40 45

Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly Arg Thr Pro Asp
 50 55 60

Leu Lys Ala Leu Leu Asn Val Val Asp Asn Ala Arg Ser Phe Ile Tyr
 65 70 75 80

Val Ala Val Met Asn Tyr Leu Pro Thr Leu Glu Phe Ser His Leu Arg
 85 90 95

Ala Trp Arg Gln Gly Ala Pro Ala His Gln Leu Leu Gly Thr Leu Gly
 100 105 110

Gly His Pro Cys Gly Pro Ser Cys Ser
 115 120

<210> 6751

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

5984

<400> 6751

Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1 5 10 15
 Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Leu Met Leu Xaa
 20 25 30
 Ser Gly Glu Cys Leu Leu Thr Ala Thr Gly Xaa Cys Leu Thr Trp Gln
 35 40 45
 Cys Arg
 50

<210> 6752

<211> 165

<212> PRT

<213> Homo sapiens

<400> 6752

Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe
 1 5 10 15
 Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val
 20 25 30
 Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr
 35 40 45
 Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp Lys Cys Glu Gly
 50 55 60
 Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys Pro Asn Cys Arg Gly
 65 70 75 80
 Thr Gly Met Gln Ile Arg Ile His Gln Ile Gly Pro Gly Met Val Gln
 85 90 95
 Gln Ile Gln Ser Val Cys Met Glu Cys Gln Gly His Gly Glu Arg Ile
 100 105 110
 Ser Pro Lys Asp Arg Cys Lys Ser Cys Asn Gly Arg Lys Ile Val Arg
 115 120 125
 Glu Lys Lys Ile Leu Glu Val His Ile Asp Lys Gly Met Lys Asp Gly
 130 135 140
 Gln Lys Ile Thr Phe His Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu
 145 150 155 160

5985

Pro Gly Asp Ile Ile
165

<210> 6753

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

5986

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6753

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Thr | Xaa | Pro | Leu | Ser | His | Met | Asn | Ile | Xaa | Gln | Xaa | Phe | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | His | Arg | Met | Ile | Trp | Ala | Asp | Leu | Ser | Cys | Leu | Val | Tyr | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Gln | Xaa | Tyr | Gln | Pro | Leu | Xaa | Thr | Lys | Xaa | Gly | Xaa | Lys | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Tyr | Val | Leu | Leu | Arg | Gly | Xaa |
| | 50 | | | | | 55 | | |

<210> 6754

<211> 28

<212> PRT

<213> Homo sapiens

<400> 6754

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Cys | Lys | Gly | Ser | Ile | Ile | Thr | Cys | Ser | Leu | Ser | Arg | Asp | Leu | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Trp | Leu | His | Glu | Gly | Ser | Ala | Val | Ser | Tyr | Phe |
| | | | 20 | | | | | 25 | | | |

<210> 6755

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6755

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Gly | Arg | Gly | Asp | Leu | Leu | Tyr | Gly | Cys | Tyr | Thr | Arg | Pro | Gln |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5987

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Ile Asn Thr Glu Ile Val Gln Asn Val Thr Gly Pro Gly Gln Arg Thr | 20 | 25 | 30 |
| Asn Met Gly Ile Leu Phe Met Ser Lys Val Gly Leu Arg Gly Asp Arg | 35 | 40 | 45 |
| Arg Ser Glu Gly Asp Glu Val Leu Asp Pro Leu Arg Gln Ala Leu Asp | 50 | 55 | 60 |
| Ser Ser Met Gln Ser His Asn Leu Tyr Gln His Pro Gln Arg Leu Ala | 65 | 70 | 75 |
| Phe His Val Ser Ala Pro Val Ala Ser Thr Val Gln Gln Ala Ser Gly | 85 | 90 | 95 |
| Leu Leu Gly Pro Leu Pro His Leu Ser Ser Phe Ala Leu Gln Pro Ala | 100 | 105 | 110 |
| His Ser Leu Leu Pro Pro Leu Gly Ser His Gly Ala Xaa Xaa Ser | 115 | 120 | 125 |

<210> 6756

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6756

| | | | | |
|---|----|----|----|----|
| Ser Phe Ala Ser Leu Gln Asn Val Gly Tyr Leu Ala Gly Asp Ala Lys | 1 | 5 | 10 | 15 |
| Ile Leu Asn Asn Ile Asn Phe Ser Leu Arg Ala Gly Glu Phe Lys Leu | 20 | 25 | 30 | |
| Ile Thr Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ile Val | 35 | 40 | 45 | |
| Ala Ser Leu Ile Ser Pro Thr Ser Gly Thr Xaa Thr Val | 50 | 55 | 60 | |

<210> 6757

5988

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6757

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Asn | Ser | Arg | Val | Asp | Pro | Arg | Val | Arg | Ser | Phe | Ala | Xaa | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Xaa | Trp | Thr | His | Xaa | Lys | Glu | Gln | Leu | Glu | Thr | Leu | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5989

Lys Leu Xaa Arg Arg Glu Val Ala Xaa Gln Trp Leu Arg Pro Ala Glu
 35 40 45

Xaa Asp His Leu Xaa Asp Ser Leu Xaa
 50 55

<210> 6758

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6758

Xaa Cys Phe Thr Phe Xaa Gly Ile Phe Xaa Ala Ile Ile Leu Phe Pro
 1 5 10 15

Phe Gly Phe Ile Cys Cys Phe Ala Leu Arg Lys Arg Arg Cys Pro Asn
 20 25 30

Cys Gly Xaa Thr Phe Ala
 35

<210> 6759

<211> 43

<212> PRT

<213> Homo sapiens

<220>

5990

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6759

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Phe | Xaa | Gly | His | Ser | Thr | Val | Xaa | Lys | Arg | Cys | Asp | Trp | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | His | Asn | Ser | Leu | Tyr | Gly | Ser | Val | Ala | Asp | Asp | Gln | Asn | Leu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Gly | Thr | Gln | Xaa | Pro | Ile | Gln | Leu | Gln |
| | 35 | | | | | | 40 | | | |

<210> 6760

<211> 87

<212> PRT

<213> Homo sapiens

<400> 6760

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Phe | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Asp | Ala | Glu | Asp | Arg | Pro | Pro | Glu | Leu | Leu | Phe | Ile | His | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Thr | Ala | Lys | Ile | Ser | Asp | Phe | Ser | Trp | Asn | Pro | Asn | Glu | Pro |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Ile | Cys | Ser | Val | Ser | Glu | Asp | Asn | Ile | Met | Gln | Ile | Trp | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Glu | Asn | Ile | Tyr | Asn | Asp | Glu | Glu | Ser | Asp | Val | Thr | Thr | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5991

Glu Leu Glu Gly Gln Gly Ser
85

<210> 6761

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

5992

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6761

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Xaa | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Arg | Pro | Pro | Ser | Trp | Asp | Leu | Arg | Ala | Ser | Phe | Ser | Xaa | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Asp | Gly | Val | Asn | Arg | His | Pro | Arg | Pro | Pro | Pro | Gly | Xaa | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Ser | Leu | Cys | Arg | Xaa | Ala | Xaa | Gly | Ala | Val | Arg | Ser | Arg | Gly |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Ala | Arg | Xaa | Val | Ser | Glu | Asp | Leu | Cys | Lys | Val | Ser | Gly | Tyr |
| | 65 | | | | 70 | | | | 75 | | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Thr | Ser | Tyr | Trp | Ile | Lys | Trp | Val | Arg | Gln | Met | Pro | Xaa | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Glu | Xaa | Met | Ala | Arg | Ile | Asp | Pro | Xaa | Asp | Ser | Tyr | Thr | Asn |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Pro | Ser | Phe | Gln | Gly | His | Val | Thr | Ile | Xaa | Ala | Asp | Lys | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Thr | Ala | Thr | Cys | Ser | Gly | Ala | Ala | Glu | Gly | Leu | Gly | His | Arg |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5993

130 135 140
 His Xaa Leu Leu Xaa Gln Thr
 145 150

<210> 6762
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6762
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Xaa
 1 5 10 15
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 20 25 30
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 35 40 45
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 50 55 60
 Val Tyr Ala Cys Xaa Val Thr His Gln Gly Leu Xaa Ser Pro Val Xaa
 65 70 75 80

5994

<210> 6763

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6763

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Thr | Met | Arg | Leu | Pro | Ala | Gln | Leu | Leu | Gly | Leu | Leu | Met | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Ser | Gly | Ser | Ser | Gly | Asn | Ile | Val | Met | Thr | Gln | Ser | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Tyr | Val | Thr | Pro | Gly | Glu | Pro | Ala | Ser | Ile | Ser | Cys | Arg | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Leu | Leu | His | Ser | Asn | Gly | Tyr | Asn | Tyr | Leu | Asp | Trp | Tyr |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Lys | Pro | Gly | Gln | Ser | Pro | Gln | Leu | Leu | Ile | Tyr | Leu | Gly | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Ala | Ser | Gly | Val | Pro | Asp | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

5995

Thr Asp Phe Thr Leu Lys Ile Thr Arg Val Xaa Ala Xaa Asp Val Gly
 100 105 110

Gly Tyr Tyr Tyr Trp Met Gln Ala Xaa Gln Ile His Ser Xaa Xaa Ala
 115 120 125

Leu Asp Gln
 130

<210> 6764

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6764

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
 1 5 10 15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
 20 25 30

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Xaa Gly
 35 40 45

Lys His Cys Gln Gln Leu Cys Ala Val Val Pro Ala Ala Pro Gly Xaa
 50 55 60

Val Pro Pro Pro Leu
 65

<210> 6765

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5996

<222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6765
 Gly Xaa Ala Arg Gly Asn His Gly Asn Pro Ser Xaa Xaa Leu Phe Leu
 1 5 10 15

 Leu Leu Leu Trp Leu Pro Asp Thr Thr Gly Glu Asn Xaa Leu Thr His
 20 25 30

 Phe Pro Gly Thr Leu Xaa Phe Phe Pro Gly Glu Xaa Ala Thr Leu Ser

5997

35 40 45
 Cys Trp Ala Ser Xaa Ser Val Tyr Ser Ser Tyr Leu Ala Trp Tyr Gln
 50 55 60
 Gln Lys Pro Gly Gln Xaa Pro Arg Xaa Leu Ile Tyr Gly Ala Ser Ser
 65 70 75 80
 Arg

<210> 6766

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6766

Arg Xaa Asp Asp Pro Ser His Ser Ser Ala Ala Ser Val Gly Asp Arg
 1 5 10 15

Val Thr Ile Thr Cys Pro Gly Xaa Ser Glu His Xaa Gln Arg Cys Lys
 20 25 30

Leu Asp Gln Gln Thr Ile Trp Lys Ala Leu Xaa Ser
 35 40

<210> 6767

5999

Ala Ile Asn Tyr Val Phe Trp Tyr His Gln
 65 70

<210> 6769

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6769

Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro
 1 5 10 15

Thr Arg Pro Leu Phe Val Val Ala Ala Ala Thr Gly Val Leu Ser Xaa
 20 25 30

Leu Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser Ser
 35 40 45

Val Asn Ile Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala
 50 55 60

Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly
 65 70 75 80

6000

Gly Ile Thr Pro Val Tyr Gly Thr Thr His Tyr Ala Asp Asn Leu Arg
 85 90 95

Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Ile Ala Tyr Met
 100 105 110

Glu Leu Lys Ser Leu Lys Phe Glu Asp Thr Ala Met Tyr Phe Cys Ala
 115 120 125

Arg Val His Asn Ser Tyr Asp Ser Ser Ala Leu Asn Trp Xaa Asp Pro
 130 135 140

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Xaa Xaa Thr Lys Gly
 145 150 155 160

Pro Ser Val Xaa Pro Leu Ala Pro Phe
 165

<210> 6770

<211> 82

<212> PRT

<213> Homo sapiens

<400> 6770

Asp Ser Ser Thr Ser Tyr Ser Ala Ser Phe Arg Gly His Val Ile Ile
 1 5 10 15

Ser Ala Asp Asn Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu
 20 25 30

Lys Ala Ser Asp Ser Ala Ile Tyr Phe Cys Ala Arg Pro Ile Ala Ser
 35 40 45

Val Lys Ala Arg Leu Val Ala Pro Ser Lys Asp Tyr Trp Gly Gln Gly
 50 55 60

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 65 70 75 80

Pro Leu

<210> 6771

<211> 141

<212> PRT

<213> Homo sapiens

6001

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6771

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Pro | Ser | Xaa | Glu | Ile | Pro | Arg | Ser | Phe | His | Leu | Val | Ile | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | His | Arg | Pro | Pro | Thr | Met | Glu | Phe | Gly | Leu | Ser | Trp | Val | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Ala | Ile | Leu | Lys | Gly | Val | Gln | Cys | Glu | Val | Arg | Leu | Val | Glu |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Gly | Gly | Leu | Val | Gln | Pro | Gly | Arg | Ser | Leu | Arg | Leu | Ser | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Pro | Gly | Phe | Thr | Phe | Asp | Asp | Tyr | Ala | Met | Asn | Trp | Phe | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Pro | Gly | Arg | Gly | Leu | Glu | Trp | Val | Gly | Phe | Ile | Arg | Ser | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Gly | Gly | Thr | Thr | Gln | Tyr | Ala | Ala | Ala | Val | Lys | Gly | Arg | Phe |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Ser | Arg | Asp | Asp | Ser | Lys | Ser | Ile | Val | Tyr | Leu | Gln | Met | Asn |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Lys | Thr | Glu | Asp | Thr | Ala | Arg | Val | Leu | Leu | Xaa |
| | 130 | | | | | 135 | | | | | 140 | |

<210> 6772

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

6002

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6772

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Xaa | Ser | Ser | Thr | Pro | Tyr | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Lys | Gly | Thr | Leu | Ala | Ala | Pro | Ser | Val | Phe | Ile | Leu | Pro | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Xaa | Val | Cys | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Phe | Tyr | Pro | Xaa | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn |
| | | 50 | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Gln | Ser | Gly | Asn | Phe | Gln | Val | Glu | Cys | His | Arg | Ala | Gly | Gln |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Gln | His | Leu | Gln | Pro | Gln | Gln | His | Pro | Asp | Xaa | Glu | Gln | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Arg | Gly | Asn | Thr | Lys | Phe | Tyr | Gly | Cys | Glu | Phe | Thr | Xaa | Gln |
| | | | 100 | | | | | | 105 | | | | | 110 | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Arg | Leu | Ala | Arg |
| | | | | | 115 |

<210> 6773

<211> 147

<212> PRT

<213> Homo sapiens

6003

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6773

Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Glu Leu Leu
 1 5 10 15

Ile Tyr Ala Ala Ser Ala Leu Arg Gly Gly Val Pro Ser Arg Phe Ser
 20 25 30

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 35 40 45

Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ser Asp Asp Phe Pro
 50 55 60

Phe Ser Phe Gly Gln Gly Thr Arg Leu Glu Met Lys Arg Thr Val Ala
 65 70 75 80

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 85 90 95

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 100 105 110

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Thr Pro
 115 120 125

Arg Arg Val Ser Gln Ser Arg Thr Ala Arg Thr Ala Pro Thr Ala Ser
 130 135 140

Ala Ala Pro
 145

<210> 6774

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6004

<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)

6005

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6774

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Glu | Xaa | Asn | Pro | Ser | Ala | Phe | Phe | Ser | Ser | Cys | Arg | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Ser | Val | Ser | Thr | Arg | Phe | Val | Ala | Trp | Tyr | Gln | Gln | Lys | Leu |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Ala | Pro | Arg | Val | Leu | Ile | Tyr | Ser | Thr | Ser | Ser | Arg | Ala | Pro |
| | | | 35 | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Arg | Thr | Gly | Ser | Val | Ala | Val | Gly | Leu | Gly | Thr | Glu | Leu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Leu | Gln | His | Gln | Arg | Ala | Trp | Glu | Pro | Glu | Asp | Phe | Ala | Val |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Leu | Cys | Asn | Ser | Tyr | Arg | Arg | Ala | Leu | Gly | His | Phe | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | | 95 |

6006

Gly Gly Asp Pro Arg Trp Glu Ile Glu Thr Glu Leu Trp Ala Cys Asn
 100 105 110

His Xaa Val Phe Xaa Xaa Xaa Pro Ala Ile Leu Ile Gly Ala Xaa Trp
 115 120 125

Lys Xaa Leu Gly Leu Ala Leu Xaa Xaa Xaa Xaa Pro Xaa Gly Lys Asn
 130 135 140

Phe Phe Phe Pro Gly Xaa Gly Gln Xaa Xaa Lys Gly Arg Xaa Xaa
 145 150 155

<210> 6775

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6775

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
 1 5 10 15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
 20 25 30

Glu Pro Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly
 35 40 45

Ser Ile Ala Ser Asn Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser
 50 55 60

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser
 85 90 95

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
 100 105 110

Gln Ser Tyr Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Thr Val Leu Gly Gln Ala Gln Gly Leu Pro Leu Gly His Ser Val Pro
 130 135 140

6007

Ala Leu Leu Leu Xaa Ser Phe Lys Pro Thr Arg Pro His Trp Cys Val
145 150 155 160

Ser

<210> 6776

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6776

Ala Pro Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
1 5 10 15

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
20 25 30

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
35 40 45

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
50 55 60

<210> 6777

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

6008

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6777

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Ala | Leu | Val | Val | Pro | Gln | Pro | Trp | Pro | Gly | Pro | Phe | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Ser | Ser | Leu | Thr | Ala | Gln | Ala | Ser | Val | Thr | Ser | Tyr | Val | Leu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Pro | Pro | Ser | Val | Ser | Val | Ala | Pro | Gly | Gln | Thr | Ala | Arg | Ile |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Gly | Ala | Asn | Asn | Ile | Gly | Ile | Lys | Asn | Val | His | Trp | Tyr | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Pro | Gly | Gln | Ala | Pro | Val | Leu | Val | Val | Tyr | Asp | Asp | Lys | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Leu | Xaa | Asp | Pro | Xaa | Arg | Ile | Phe | Trp | Phe | Gln | Leu | Leu | Gly |
| | | | 85 | | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Ala | Thr | Leu | Thr | Ile | Asn | Xaa | Val | Glu | Pro | Gly | Met | Lys | Pro |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Thr | Val | Arg | Cys | Gly | Ile | Leu | Val | Xaa | Pro | Arg | Ser | Val | Arg |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Asp | Gln | Thr | Tyr | Arg | Leu | Ile | Asn | Pro | Arg | Leu | Pro | Leu | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Val | Pro | Pro | Phe | Xaa |
| 145 | | | | | 150 | |

6009

<210> 6778

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6778

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Gly | Lys | Leu | Cys | Arg | Asn | Ile | Ser | Thr | Met | Ala | Trp | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Thr | Leu | Leu | Thr | Gln | Gly | Thr | Gly | Ser | Trp | Ala | Gln | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Thr | Gln | Pro | Pro | Ser | Val | Ser | Gly | Ser | Pro | Gly | Gln | Ser | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Ser | Cys | Thr | Gly | Thr | Ser | Ser | Asp | Val | Gly | Gly | Tyr | Asn | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Trp | Tyr | Gln | Gln | Ser | Pro | Gly | Thr | Ala | Pro | Lys | Leu | Met | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Val | Ser | Asn | Arg | Pro | Ser | Arg | Val | Pro | Asp | Arg | Phe | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Ser | Gly | Asn | Thr | Gly | Phe | Leu | Asp | Ile | Phe | Trp | Ala | Pro | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Thr | Lys | Gly | Glu | Leu | Leu | Leu | Xaa | Ala | Arg | Ile | Lys | Xaa | Ser |
| | | 115 | | | | | 120 | | | | | | 125 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Phe | Phe | Leu | Phe |
| | | | | | 130 |

6010

<210> 6779

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6779

Gly Thr Xaa Leu Xaa Trp Phe His Gln Arg Pro Gly Gln Xaa Pro Arg
1 5 10 15

Arg Leu Leu Tyr Lys Ile Ser Asn Arg Glu Leu Trp Arg Pro Xaa Gln
20 25 30

Ile Xaa Arg Gln Trp Gly Gln Ala Leu Ile Cys Thr Leu Lys Ile Ser
35 40 45

Arg Val Glu Ala Glu Asp Val Gly Ile Tyr
50 55

<210> 6780

<211> 36

<212> PRT

<213> Homo sapiens

6011

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6780

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Lys | Xaa | Val | Val | Xaa | Val | Val | Gln | Tyr | Ser | Cys | Ser | Pro | Gly | Asp |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Val | Val | Glu | Arg | Pro | Pro | Pro | Arg | Trp | Ser | Cys | Gln | Leu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Val | Pro | Xaa | Lys |
| | | | 35 |

<210> 6781

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

6012

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6781

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Phe | Phe | Xaa | Phe | Phe | Phe | Xaa | Glu | Met | Glu | Xaa | Val | Pro | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu | Glu | Xaa | Pro | Pro | Pro | Arg |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Xaa | Ser | Phe | Gly | Ser | Leu | Leu | Glu | Arg | Xaa | Gln | Ser |
| | | 35 | | | | | 40 | | | | | 45 | |

<210> 6782

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6782

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu | Glu | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Xaa | Arg | Trp | Ser | Ser | Ser | Phe | Ile | Pro | Xaa | Glu | Gly | Val | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6013

Ser Lys Lys
35

<210> 6783

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6783

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Leu | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Pro | Pro | Pro | Arg | Trp | Xaa | Pro | Ala | Phe | Val | Leu | Leu | Glu | Arg |
| | | | 20 | | | | 25 | | | | | 30 | | | |

<210> 6784

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

6014

<400> 6784

Gly His Gly Leu Xaa Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
 1 5 10 15

Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Ala Leu Phe
 20 25 30

Pro Ile Ile Glu Xaa
 35

<210> 6785

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6785

His Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
 1 5 10 15

Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Xaa Cys Ser Gln Xaa Leu
 20 25 30

Arg Xaa Asn Trp
 35

<210> 6786

6015

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6786

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Ser | Val | Trp | Gly | Leu | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Val | Leu | Glu | Arg | Pro | Pro | Pro | Arg | Trp | Ser | Xaa | Ser | Phe | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Pro | Leu | Val | Arg |
| | | | 35 |

<210> 6787

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6787

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Leu | Gln | Ala | Thr | Cys | Lys | Ile | Leu | Gly | Ala | Lys | Asp | Gly | Leu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu | Glu | Arg | Pro |
| | | | | 20 | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Arg | Trp | Ser | Thr | Ser | Phe | Xaa | Pro | Leu |
| | | | | 35 | | | | 40 | | |

<210> 6788

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

6016

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6788

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Phe | Phe | Phe | Phe | Phe | Phe | Leu | Xaa | Glu | Asn | Asp | Phe | Ile | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Leu | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Ala | Ser | Pro | Arg | Trp | Gly | Pro | Xaa | Phe | Val | Ala | Xaa | Gly | Ala |
| | | 35 | | | | | 40 | | | | | | 45 | | |

Gly

<210> 6789

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6789

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Pro | Glu | Phe | Leu | Gln | Pro | Gly | Gly | Ser | Thr | Ser | Phe | Arg | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Pro | Pro | Arg | Arg | Trp | Ser | Ser | Ser | Phe | Ile | Pro | Arg | Glu | Gly | Xaa | |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6017

<210> 6790

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6790

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Asp | Leu | Arg | Leu | Pro | Glu | Gly | Asp | Leu | Gly | Met | Glu | Ile | Glu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Tyr | Asp | Cys | Gly | Glu | Glu | Ile | Leu | Ile | Thr | Val | Leu | Ser | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Glu | Glu | Ala | Ala | Val | Ala | Ile | Lys | Ala | Met | Ala | Lys |
| | | 35 | | | | | 40 | | | | 45 | | |

<210> 6791

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6791

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Met | Val | Leu | Leu | Thr | Ala | Val | Leu | Leu | Leu | Ala | Ala | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

6018

Ala Gly Pro Ala Gln Ser Leu Gly Ser Phe Val His Cys Glu Pro Cys
 20 25 30

Asp Glu Lys Ala Leu Ser Met Cys Pro Pro Ser Pro Leu Gly Cys Glu
 35 40 45

Leu Val Lys Glu Pro Gly Cys Gly Cys Cys Met Thr Cys Ala Leu Ala
 50 55 60

Glu Gly Gln Ser Cys Gly Val Tyr Thr Glu Arg Xaa Ala Gln Gly Leu
 65 70 75 80

Arg Xaa Leu Pro Arg Gln Asp Glu Glu Lys Pro Leu His Ala Leu Leu
 85 90 95

His Gly Arg Gly Val Xaa Leu Asn Xaa Lys Ser Tyr
 100 105

<210> 6792

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6792

Gln Arg Pro Cys Leu Trp Lys Val Leu Leu Gln Ala Lys Gly Ser His
 1 5 10 15

Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu
 20 25 30

Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser
 35 40 45

Met Met Asn Thr Val
 50

<210> 6793

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6019

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6793

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | His | Ser | Leu | Cys | Gly | Ala | Arg | Pro | Pro | Val | Pro | Val | Met | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Arg | Val | Gln | Pro | Glu | Ala | Gln | Ala | Lys | Val | Asp | Val | Phe | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Leu | Cys | Thr | Lys | Thr | Glu | Asn | Leu | Leu | Gly | Ser | Tyr | Phe | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Ile | Ser | Glu | Leu | Asp | Ala | Phe | Leu | Lys | Glu | Pro | Ala | Leu | Asn |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Asn | Leu | Ser | Asn | Leu | Xaa | Ala | Xaa | Trp | Thr | Ser | Gln | Cys | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Ser | Arg | Arg | Lys | Arg | Lys | Arg | Asn | Gly | Arg | Asn | Xaa | Xaa | Xaa |
| | | | 85 | | | | | | 90 | | | | | 95 | |

Lys Glu

<210> 6794

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

6020

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6794

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Thr | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | His | Ala | Ser | Ala | Ser | Gly | His | His | Ser | Gly | Pro | Ser | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Asn | His | Thr | Ser | Gln | Thr | Phe | Thr | Gln | His | Phe | Leu | Pro | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Lys | Met | His | Lys | Glu | Glu | His | Glu | Val | Ala | Val | Leu | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Ser | Thr | Ile | Leu | Pro | Arg | Ser | Thr | Val | Ile | Asn | Ile | His | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Ser | Val | Pro | Asp | His | Val | Val | Trp | Ser | Leu | Phe | Asn | Thr | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Asn | Trp | Xaa | Cys | Leu | Gly | Phe | Ile | Ala | Phe | Ala | Tyr | Ser | Val |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Arg | Asp | Arg | Lys | Met | Val | Gly | Xaa | Arg | Asp | Arg | Gly | Pro | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Leu | His | Arg | Ser | Xaa | Ala |
| 130 | | | | | | 135 | |

<210> 6795

<211> 29

<212> PRT

<213> Homo sapiens

6021

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6795

Xaa Met Xaa Ile Ser Lys Pro His Phe Glu Lys Leu Phe Pro Ser Gln

1

5

10

15

Cys Tyr Leu Cys Leu Leu Leu Asn Asn His Phe Leu Thr

20

25

<210> 6796

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6796

Phe His Leu Ile Lys Ser Leu Lys Tyr Gln Thr Met Arg Xaa His Glu

1

5

10

15

Xaa Thr Trp Ala Xaa Asn Leu Arg Tyr Xaa Lys Pro Asp Leu Asp Cys

20

25

30

6022

Met Ala Gly Leu Arg Arg Phe Thr Leu Glu Leu Gln His Thr Tyr Trp
 35 40 45

<210> 6797

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6797

Ala Met Arg Cys Met Pro Val Trp Asn Gly Gln Thr Leu Thr Phe Val
 1 5 10 15

Gln Asp Arg Pro Ser Asp Lys Thr Trp Thr Tyr Asn Arg Xaa Asn Val
 20 25 30

Val Met Pro Asp Asp Gly Ala Pro Phe Arg Tyr Ser Phe Ser Ala Leu
 35 40 45

Lys Asp Arg His Asn Ala Leu Xaa Gly Glu Leu Asp
 50 55 60

<210> 6798

<211> 109

<212> PRT

<213> Homo sapiens

<400> 6798

Leu Ser Arg Ala Leu Ala Val Glu Leu Leu Asp Lys Val Asn Asn Pro
 1 5 10 15

Asp Asn His Ala His Tyr Thr Glu Ala Asp Asp Asp Asp Phe Glu Pro
 20 25 30

6023

His Ala Ile Ile Arg His Thr Ile Arg Ser Thr Asn Arg Asn Ala Arg
 35 40 45
 Ala Glu Arg Thr Ala Ser Glu Ile Asn Phe Asp Lys Leu Gln Phe Glu
 50 55 60
 Pro Pro Leu Arg Lys Glu Thr Glu Ala Arg Asp Glu Met Gly Leu Ser
 65 70 75 80
 Ser Arg Pro Lys Phe His Val Tyr Ser Gly Ile Leu Leu Leu Met Val
 85 90 95
 Gln Ile Leu Ala Asn His Leu Lys Thr Leu Gln Tyr His
 100 105

<210> 6799

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6799

Phe Asn Leu Ile Ser Pro Ser Ile Ser Arg Tyr Cys Lys Lys Pro Leu
 1 5 10 15
 Thr Ser Asn Cys Thr Ile Gln Ile Ala Thr Pro Gly Lys Gly Lys Lys
 20 25 30
 Ser Thr Pro Lys Pro Ile Pro Ile Leu Ala Ala Gly Phe Cys Ser Asp
 35 40 45
 Lys Met Ser Leu Leu Leu Val Tyr Gly Ser Trp Phe Gln Pro Thr Ile
 50 55 60
 Glu Arg Val Val Arg
 65

<210> 6800

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6024

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6800

Ala Lys Gly Glu Leu Gln Leu Xaa Met Leu Glu Ile Val His Pro Xaa

1

5

10

15

Xaa Val Glu Lys His Tyr Arg Glu Met Glu Glu Lys Leu Ala Leu Ile

20

25

30

Ile Gln Lys His Trp Lys Gly Ser Gly Lys Gly Lys Ile Xaa Thr Asn

35

40

45

Xaa Ser Xaa Leu Leu Xaa

50

<210> 6801

<211> 42

<212> PRT

<213> Homo sapiens

<400> 6801

Lys Ile Leu Phe Val Cys Ser Val Lys Leu Ser Leu Tyr Val Cys Leu

6025

1 5 10 15
 Leu Gln Leu Ser Pro Phe Val Tyr Ser Glu Phe Ala Arg Glu Arg Asn
 20 25 30
 Leu His Val Ser Leu Leu Asp Pro Thr Leu
 35 40

<210> 6802

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6802

Ser Asp Gln Asp Leu Asn Arg Met Arg Ser Glu Leu Leu Val Pro Gly
 1 5 10 15

Ser Gln Leu Ile Leu Gly Pro His Glu Ser Lys Ile Pro Ile Leu Leu
 20 25 30

Ile Gln Gln Pro Gly Lys Val Thr Gly Glu Asp Arg Leu Gly Trp Gly
 35 40 45

Ser Gly Trp Asp Val Leu Leu Pro Lys Gly Trp Gly Met Ala Phe Trp
 50 55 60

Ile Pro Phe Ile Tyr Arg Gly Val Arg Val Gly Gly Leu Lys Glu Ser
 65 70 75 80

Ala Val His Ser Gln Tyr Lys Arg Ser Pro Asn Val Pro Gly Asp Phe
 85 90 95

Pro Asp Cys Pro Ala Gly Met Leu Phe Ala Glu Glu Gln Ala Lys Asn
 100 105 110

Leu Leu Glu Lys Tyr Lys Arg Arg Pro Pro Ala Lys Arg Pro Asn Tyr
 115 120 125

Val Lys Leu Gly Thr Leu Ala Pro Phe Cys Cys Pro Trp Glu Gln Leu

6026

130 135 140
 Thr Gln Asp Trp Glu Ser Arg Val Gln Ala Tyr Glu Glu Pro Ser Val
 145 150 155 160
 Ala Ser Ser Pro Asn Gly Lys Xaa Ser Asp Leu Xaa Lys Ile
 165 170

<210> 6803

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6803

Arg Gln Val Leu Val Leu Phe Ile Asp Glu Ala Ser Gln Lys Met Ser
 1 5 10 15

Lys Gln Gln Pro Thr Gln Phe Ile Asn Pro Glu Thr Pro Gly Tyr Val
 20 25 30

Gly Phe Ala Asn Leu Pro Asn Gln Val His Arg Lys Ser Val Lys Lys
 35 40 45

Gly Phe Glu Phe Thr Leu Met Val Val Gly Glu Ser Gly Leu Gly Lys
 50 55 60

Ser Thr Leu Ile Asn Ser Leu Phe Leu Thr Asp Leu Tyr Pro Glu Arg
 65 70 75 80

Val Ile Pro Gly Ala Ala Glu Lys Ile Glu Arg Thr Val Gln Ile Glu
 85 90 95

Ala Ser Thr Val Glu Ile Glu Glu Xaa Gly Val Lys Leu Arg Leu Xaa
 100 105 110

Ser Gly Arg Tyr Pro Trp Leu Trp Val Thr
 115 120

6027

<210> 6804

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6804

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Xaa | Pro | Arg | Ala | Ala | Gly | Ile | Arg | His | Glu | Gly | Arg | Ser | Gly | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Lys | Arg | Ala | Arg | Glu | Ala | Gly | Asn | Ile | Asn | Gln | Ser | Leu | Leu |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Gly | Arg | Val | Ile | Thr | Ala | Leu | Val | Glu | Arg | Thr | Pro | His | Val |
| | 35 | | | | | 40 | | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Tyr | Arg | Glu | Ser | Lys | Leu | Thr | Arg | Ile | Leu | Gln | Asp | Ser | Xaa | Gly |
| | 50 | | | | 55 | | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Thr | Arg | Thr | Ser | Ile | Ile | Ala | Thr | Ile | Ser | Pro | Ala | Ser | Leu |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Glu | Glu | Thr | Leu | Ser | Thr | Leu | Glu | Tyr | Ala | His | Arg | Ala | Lys |
| | | | 85 | | | | | 90 | | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Leu | Xaa | Lys | Pro | Xaa | Val | Asn | Gln | Lys | Leu | Thr | Lys | Lys | Ala |
| | | 100 | | | | | 105 | | | | | 110 | | | |

| | | |
|-----|-----|-----|
| Leu | Ile | Lys |
| | | 115 |

6028

<210> 6805

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6805

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Trp | Lys | Arg | His | Ser | Arg | Met | Ser | Tyr | Leu | Xaa | Val | Pro | Tyr | Val |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

Thr His Ser

<210> 6806

<211> 146

<212> PRT

<213> Homo sapiens

<220>

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<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6806

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Thr | Val | Thr | Glu | Val | Ser | Arg | Ala | Phe | Ser | Leu | Leu | Cys | Lys |
| 1 | | | | | | 5 | | | 10 | | | | | 15 | |

Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu

6029

| | | | | | | |
|---|-----|----|-----|----|-----|----|
| | 20 | | 25 | | 30 | |
| Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val | | | | | | |
| | 35 | | 40 | | 45 | |
| Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu | | | | | | |
| | 50 | | 55 | | 60 | |
| Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met | | | | | | |
| | 65 | | 70 | | 75 | 80 |
| Asp Leu His His Gly Ser Leu Phe Leu Xaa Thr Pro Lys Ile Val Ala | | | | | | |
| | | 85 | | 90 | | 95 |
| Asp Lys Asp Tyr Ser Val Thr Ala Xaa Ser Lys Ile Val Val Val Thr | | | | | | |
| | 100 | | 105 | | 110 | |
| Ala Xaa Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln | | | | | | |
| | 115 | | 120 | | 125 | |
| Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr | | | | | | |
| | 130 | | 135 | | 140 | |
| Xaa Ser | | | | | | |
| 145 | | | | | | |

<210> 6807

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

6030

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

6031

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (142)
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<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

6032

<400> 6807

Leu Xaa Pro Ala Xaa Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1 5 10 15

Pro Thr Ser Ser Ser Ser Arg Ala Ala Ala Leu Glu Asp Xaa Arg Leu
 20 25 30

Arg Thr Gln Pro Cys Gln Xaa Xaa Ala Xaa Xaa Xaa Gly Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Ala Ala Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro
 50 55 60

Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser
 65 70 75 80

Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu
 85 90 95

Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser
 100 105 110

Ala Xaa Gly Val Val Val Thr Arg Ser Val Thr Ala Thr Leu Ala Ser
 115 120 125

Ala Leu Ala Pro Ala Pro Phe Ala Xaa Phe Pro Ser Phe Xaa Xaa Thr
 130 135 140

Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly
 145 150 155 160

Phe Arg Xaa Ser Ala Leu Arg His Leu Asp Xaa Lys Lys Leu Asp
 165 170 175

<210> 6808

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

6033

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6808

Xaa Xaa Lys Ser Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu Cys Gln Val Ile
20 25 30

Val Ser Gln Pro Ile Ile Phe Lys Thr Glu Thr Pro Ser Asn
35 40 45

<210> 6809

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6809

Leu Leu Xaa Met Arg Leu Pro Ala Gln Leu Leu Xaa Leu Leu Met Leu
1 5 10 15

Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Leu
20 25 30

Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
35 40 45

6034

Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr
 50 55 60

Leu Gln Lys Pro Gly Gln Ser Xaa Gln Leu Leu Ile Tyr Leu Gly Ser
 65 70 75 80

Asn Arg Ala Phe Xaa Gly Ser Leu Thr Gly Phe
 85 90

<210> 6810

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6810

Xaa Xaa Ile Cys Glu Leu Pro Leu Lys Leu Val Arg Pro Ala Gly Thr
 1 5 10 15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Leu Ser Tyr Asn
 20 25 30

Lys Leu Lys Asn Ile Pro Thr Val Asn Glu Asn Leu Glu Asn Tyr Tyr
 35 40 45

Leu Glu Val Asn Gln Leu Glu Lys Phe Asp Ile Lys Ser Phe Cys Lys
 50 55 60

Ile Leu Gly Pro Leu Ser Tyr Ser Lys Ile Lys Gln Lys Leu Phe Met
 65 70 75 80

Ser Ile Ala Ser Gln Lys Pro Val Phe His Arg Ile Cys Met Asn Val
 85 90 95

6035

Tyr Val Leu Leu Thr Lys Ser Leu Leu Ile Asn Ile Cys Ile Leu Glu
 100 105 110
 Gln Tyr Phe Met Val Met Phe Phe Cys Val Ser Val Phe Ile Val Ser
 115 120 125
 Ile Phe Tyr Tyr Cys Leu Leu Leu Pro
 130 135

<210> 6811

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6811

Pro Arg Val Arg Ala Val Met Ala Pro Arg Thr Leu Leu Leu Leu
 1 5 10 15

Leu Gly Ala Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met

6036

[illegible]

<210> 6812

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6812

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Cys | Xaa | Asp | Leu | Ala | Lys | Glu | Gln | Gly | Pro | Tyr | Glu | Thr | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Glu | Gly | Ser | Pro | Val | Ser | Lys | Gly | Ile | Leu | Gln | Tyr | Asp | Met | Trp | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Thr | Pro | Thr | Asp | Leu | Trp | Asp | Trp | Lys | Val | Leu | Lys | Glu | Lys | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Ala Lys Tyr Gly Ile Arg Asn Ser Leu Leu Ile Ala Pro Met Pro Thr

6037

[illegible]

<210> 6813

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6038

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6813

Thr Met Gln Ala Xaa Asp Asn Ile Thr Xaa Ala Arg Leu Leu Gln Gln

1

5

10

15

Glu Val Leu Gln Asn Val Ser Asp Ala Glu Ser Cys Tyr Leu Val His

20

25

30

Thr Leu Leu Glu Phe Tyr Leu Lys Thr Val Phe Lys Asn Tyr His Asn

35

40

45

Arg Thr Val Glu Val Arg Asp Xaa Xaa Xaa Ile Leu Xaa

50

55

60

<210> 6814

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6814

Lys Thr Gln Glu Thr Thr Ser Ile Ser Val Thr His Phe Leu Ser Phe

1

5

10

15

Leu Thr Gly Phe Trp Lys Leu Ala Ile Cys Met Ala Lys Thr Asp Leu

20

25

30

Ser Leu Xaa His Gln Pro Asp Lys Lys Gly Val Pro Arg Asp Xaa Ile

6039

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 35 | | 40 | | 45 | | | | | | | | | | |
| Leu | Pro | Ile | Ser | Asp | Val | Arg | Ala | Ser | Ile | Xaa | Ala | Trp | Gly | Gln | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Pro | Leu | Val | Gly | Thr | Xaa | His | His | | | | | | | | |
| | 65 | | | | | 70 | | | | | | | | | |

<210> 6815

<211> 209

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6815

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Gln | Pro | Thr | Ala | Xaa | Cys | Xaa | Cys | Ile | Gln | Arg | Gln | Val | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Pro | Ala | Ala | Arg | Ala | Pro | Gln | Ser | Arg | Thr | Arg | Ser | Ala | Gln |
| | | | 20 | | | | | 25 | | | | | | 30 | |

6040

Ala Lys Leu Ala Leu Thr Met Pro Val Lys Gly Gly Thr Lys Cys Ile
 35 40 45
 Lys Tyr Leu Leu Phe Gly Phe Asn Phe Ile Phe Trp Leu Ala Gly Ile
 50 55 60
 Ala Val Leu Ala Ile Gly Leu Trp Leu Arg Phe Asp Ser Gln Thr Lys
 65 70 75 80
 Ser Ile Phe Glu Gln Glu Thr Asn Asn Asn Asn Ser Ser Phe Tyr Thr
 85 90 95
 Gly Val Tyr Ile Leu Ile Gly Ala Gly Ala Leu Met Met Leu Val Gly
 100 105 110
 Phe Leu Gly Cys Cys Gly Ala Val Gln Glu Ser Gln Cys Met Leu Gly
 115 120 125
 Leu Phe Phe Gly Phe Leu Leu Val Ile Phe Ala Ile Glu Ile Ala Ala
 130 135 140
 Ala Ile Trp Gly Tyr Ser His Lys Asp Glu Val Ile Lys Glu Val Gln
 145 150 155 160
 Glu Phe Tyr Lys Asp Thr Tyr Asn Lys Leu Lys Thr Lys Asp Glu Pro
 165 170 175
 Gln Arg Glu Thr Leu Lys Ala Ile His Tyr Ala Leu Asn Cys Xaa Gly
 180 185 190
 Xaa Gly Trp Gly Ala Trp Lys Gln Xaa Tyr Leu Lys Lys Xaa Trp Pro
 195 200 205

Gln

<210> 6816

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6041

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (68)

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<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

6042

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6816

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Xaa | Asn | Ser | Pro | Xaa | Xaa | Arg | Xaa | Leu | Leu | Gln | Ile | Leu | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Ala | Ser | Gly | Gly | Leu | Leu | Gly | Asp | Ala | Phe | Leu | His | Leu | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | His | Ala | Leu | Glu | Pro | His | Ser | His | His | Thr | Leu | Glu | Gln | Pro | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | His | Ser | His | Ser | Gly | Gln | Gly | Pro | Ile | Leu | Ser | Val | Gly | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Leu | Xaa | Gly | Ile | Xaa | Ala | Phe | Xaa | Asp | Val | Glu | Lys | Phe | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Val | Lys | Gly | Gly | His | Gly | His | Ser | His | Gly | His | Gly | His | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | His | Thr | Arg | Gly | Ser | His | Gly | His | Gly | Arg | Xaa | Glu | Arg | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Glu | Lys | Xaa | Ile | Ser | Glu | Glu | Glu | Asp |
| | 115 | | | | | 120 | | | | |

<210> 6817

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6817

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Ile | Glu | Phe | Ile | Tyr | Thr | Ala | Pro | Ser | Ser | Ala | Val | Cys | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Leu | Asp | Val | Gly | Gly | Lys | Lys | Glu | Tyr | Leu | Ile | Ala | Gly | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6043

Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val
 35 40 45

Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg
 50 55 60

Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro
 65 70 75 80

Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr
 85 90 95

Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys
 100 105 110

Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys
 115 120 125

Gln Glu Phe Leu Asp Ile Glu Asp Pro
 130 135

<210> 6818

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6818

Pro Arg Ala Arg Pro Ala Ala Pro Ala Ala Ala Pro Gly Pro Leu Ala
 1 5 10 15

Ala Ala Thr Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu
 20 25 30

Asp Lys Glu Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys

6044

35 40 45
 Lys Ala Ala Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser
 50 55 60
 Leu Gln Lys Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser
 65 70 75 80
 Glu Ala Leu Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys
 85 90 95
 Ala Thr Asp Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln
 100 105 110
 Leu Val Glu Glu Glu Val Trp Ile Val Pro Lys Xaa Arg Ser Gly Asn
 115 120 125
 Ser Phe Ala Glu Thr Trp Xaa Lys Leu Glu Lys Ala Ala Asp Glu Ser
 130 135 140
 Glu Arg Xaa Met Lys Val Ile Glu Lys Ser Ser Pro Lys Arg
 145 150 155

<210> 6819

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6819

Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile
 1 5 10 15

Arg Ala Gly Ser Ile Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Phe
 20 25 30

Ile Ser Thr Arg Ser
 35

<210> 6820

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

6045

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6820

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Val | Leu | Lys | Thr | Ser | Gly | Lys | Leu | Arg | Glu | Asn | Leu | Leu | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Leu | Glu | His | Tyr | Val | Asn | Cys | Leu | Asp | Leu | Val | Asn | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Tyr | Gly | Leu | Ala | Gln | Ile | Gly | Val | Cys | Phe | His | Pro | Val | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Lys | Gln | Ile | Arg | Asn | Gly | Val | Lys | Ser | Ile | Gly | Glu | Lys | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Ser | Leu | Val | Trp | Phe | Thr | Pro | Pro | Arg | Thr | Ser | Asn | Gln | Trp |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Phe | Trp | Leu | Arg | His | Arg | Leu | Gln | Trp | Trp | Arg | Lys | Phe | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Pro | Ser | Asn | Phe | Ser | Ser | Ser | Asp | Cys | Gln | Asp | Glu | Glu | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Gly | Asn | Lys | Leu | Tyr | Tyr | Asn | Phe | Pro | Leu | Gly | Lys | Gly | Val |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Asn | Pro | Val | Glu | Pro | Lys | Arg | Ser | Glu | Leu | Leu | His | Met | Tyr |
| | | 130 | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Asn | Xaa | Ala | Lys | Leu | Pro | Trp | Pro | Lys | Trp | Thr | Lys | Lys | Xaa |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

6046

Gly Ser Leu Gly Ser Ser Leu Glu Met Gly Thr Xaa Thr Arg Gly Met
165 170 175

Leu Xaa Asn Xaa Met Ile Leu
180

<210> 6821

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6047

<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)

6048

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6821

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Leu | Ser | Ser | Arg | Xaa | Leu | Xaa | Ala | Lys | Xaa | Xaa | Gly | Xaa | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Ser | His | Arg | Ala | Leu | Gln | Gly | Thr | Ile | Ala | Xaa | Asn | Xaa | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Met | Gln | Val | Leu | Glu | Lys | Leu | Ser | Gly | Lys | Leu | Xaa | Glu | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Lys | Asp | Phe | Xaa | Met | Ile | Arg | Xaa | Met | Lys | Xaa | Lys | Leu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Asn | Ser | Xaa | Val | Met | Pro | Trp | Asp | Pro | Xaa | Tyr | Tyr | Ser | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Arg | Ala | Glu | Arg | Xaa | Asn | Ile | Glu | Pro | Ser | Leu | Tyr | Cys | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Xaa | Leu | Gly | Ala | Cys | Met | Glu | Ser | Leu | Asn | Ile |
| | | | 100 | | | | | 105 | | | | |

<210> 6822

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

6049

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6822
 Arg Thr Xaa Ala Xaa Gly Glu Arg Ala Cys Arg Ser Thr Leu Val Asp
 1 5 10 15
 Pro Lys Xaa Val Xaa Thr Val Phe Ser Leu Gly Ala Cys Met Glu Gly
 20 25 30
 Leu Asn Ile Leu Leu Asn Arg Leu Leu Gly Ile Ser Leu Tyr Ala Glu
 35 40 45
 Gln Pro Ala Lys Gly Glu Val Trp Ser Glu Asp Val Arg Lys Leu Ala
 50 55 60
 Val Val His Glu Ser Glu Gly Leu Leu Gly Tyr Ile Tyr Cys Asp Phe
 65 70 75 80
 Phe Gln Arg Ala Asp Lys Pro His Gln Asp Cys His Phe Thr Ile Arg
 85 90 95
 Gly Gly Arg Leu Lys Gly Arg Trp Glu Thr Xaa Gln Leu Pro Val Val
 100 105 110

6050

Ser Ser Tyr Ala Gly Ile Phe Pro Val Pro Xaa Arg Glu Phe Ser Asn
 115 120 125

Phe Gly Xaa Xaa Leu Gly Met Met Gly Lys Pro Phe Pro Gly Xaa Gly
 130 135 140

<210> 6823

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6823

Ala Xaa Ser Ser Leu Trp Glu Ser Lys Pro Arg Xaa Gly Thr Glu Ala
 1 5 10 15

Ser Glu Leu Leu Pro Thr Leu Asp Thr Lys Ala Pro Thr Gly Arg Arg
 20 25 30

Thr Lys Pro Trp Gly Arg Leu Lys Arg Arg Ala Arg Ser Pro Gln Gly
 35 40 45

Gln Thr Ala Lys Pro Gln Ser Cys Cys Gly Ala Glu His Arg Gly Pro
 50 55 60

Gln Ala Leu Arg Lys Gly Arg Gly Asp Pro Gly Ala Arg Glu Arg Ser
 65 70 75 80

Pro Arg Ala Ile Ser Arg Ala Gly Arg Arg Glu Pro Arg Ala Val His
 85 90 95

Ser Cys Gly Leu
 100

6051

<210> 6824
 <211> 109
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6824
 Phe Lys Arg Glu Thr Gly Val Asp Leu Thr Lys Asp Asn Met Ala Leu
 1 5 10 15
 Gln Arg Val Arg Glu Ala Ala Glu Lys Ala Lys Cys Glu Leu Ser Ser
 20 25 30
 Ser Val Gln Thr Asp Ile Asn Leu Pro Tyr Leu Thr Met Asp Ser Ser
 35 40 45
 Gly Pro Lys His Leu Asn Met Lys Leu Thr Arg Ala Gln Phe Glu Gly
 50 55 60
 Ile Val Thr Asp Leu Ile Arg Arg Thr Ile Ala Pro Cys Gln Lys Ala
 65 70 75 80
 Met His Asp Ala Glu Val Ile Leu Ser Asp Ile Xaa Glu Val Xaa Pro
 85 90 95
 Val Xaa Gly Met Thr Arg Met Pro Met Phe Xaa Arg Leu
 100 105

<210> 6825
 <211> 48

6052

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6825

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Glu | Xaa | Thr | Lys | Lys | Leu | Arg | Glu | Gln | Gly | Ser | Leu | Leu | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Val | Gln | Asn | Gly | Thr | Glu | Pro | Ser | Ser | Leu | Pro | Phe | Leu | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Ala | Arg | Pro | Leu | Val | Pro | Glu | Val | Ser | Ile | Lys | Val | Gln | Arg |
| | | | 35 | | | | | 40 | | | | | 45 | | |

<210> 6826

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

6053

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6826

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Leu | Asn | Asn | Leu | Xaa | Pro | Asn | Tyr | Ala | Xaa | Glu | Lys | Leu | Gln |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Phe | Asn | Met | His | Val | Phe | Lys | Leu | Glu | Gln | Glu | Glu | Tyr | Met |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Asp | Ile | Pro | Trp | Thr | Leu | Ile | Asp | Phe | Tyr | Asp | Xaa | Gln | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Asp | Leu | Ile | Glu | Xaa | Lys | Trp | Glu | Ser | Trp | Xaa | Phe | Trp | Xaa |
| | 50 | | | | | | 55 | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Lys | Asn | Xaa | Cys | Phe |
| | 65 | | | |

<210> 6827

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6827

6054

Cys Leu Ser Trp Glu Arg Arg Gly Pro Ser Ser Ala Pro Pro Thr Val
 1 5 10 15
 Trp Glu Thr Val Pro Ser Pro Leu Leu Gly Ser Lys His Leu Phe Pro
 20 25 30
 Val Leu Met Glu Ser Trp Cys Leu Ser Pro Ser Ala Ala Gln Lys Leu
 35 40 45
 Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser Arg Ala Leu Leu
 50 55 60
 Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln Lys Ala Gln Thr
 65 70 75 80
 Lys Glu Gln Val Xaa Gly Ala Gly Gly Gly Gln Xaa Thr Xaa Arg Ala
 85 90 95

<210> 6828

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6828

Leu Glu Asp Leu His Asp Leu Leu Ala Ser Leu Xaa Asn Asn Ala Xaa
 1 5 10 15

6055

Asp Asp Tyr Leu Asn Ala Met Xaa Ser Glu Ala Pro Met Pro Ile Xaa
 20 25 30

Phe Ala Met Phe Leu Thr Met
 35

<210> 6829

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6829

Lys Val Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys
 1 5 10 15

Cys Thr Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln
 20 25 30

Leu Gly Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu
 35 40 45

Glu Lys Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg
 50 55 60

Ala His Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu
 65 70 75 80

Tyr Cys Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg
 85 90 95

Arg Arg Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln
 100 105 110

Leu Arg Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Phe Ala Gly Arg
 115 120 125

Glu Lys Gly Ala Arg Xaa Lys Lys
 130 135

<210> 6830

<211> 69

6056

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6830

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Ala | Lys | Glu | Thr | Leu | Glu | Pro | Leu | Ser | Gln | Ala | Ala | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gln | Val | Lys | Lys | Thr | Thr | Asp | Ser | Asp | Ala | Lys | Xaa | Ile | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Cys | Thr | Ser | Leu | Ser | Ala | Val | Gln | Ile | Ile | Lys | Xaa | Leu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Thr | Pro | Ile | Asp | Asp | Phe | Glu | Lys | Arg | Val | Thr | Pro | Ser | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Val | Arg | Lys | Val | Gln |
| 65 | | | | |

<210> 6831

<211> 179

<212> PRT

<213> Homo sapiens

<400> 6831

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Arg | Tyr | Ile | Lys | Ala | Leu | Ala | Glu | Glu | Asn | Arg | Asn | Val | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gly | Pro | Tyr | Ala | Gly | Val | Met | Thr | Ala | Tyr | Asp | Leu | Lys | Lys | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Leu | Leu | Asp | Asn | Ile | Leu | Gln | Arg | Ile | Gly | Lys | Leu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Val | Asp | Asn | Leu | Val | Val | Asn | Gly | Thr | Gly | Thr | Asn | Ser | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Thr | Thr | Ala | Val | Pro | Ser | Leu | Val | Ala | Leu | Glu | Lys | Ile | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

6057

Val Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro
 85 90 95

Met Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp
 100 105 110

Met Trp Arg Ser Asp Pro Cys Tyr Ala Asp Tyr Gly Val Asp Gly Ser
 115 120 125

Thr Cys Ser Phe Phe Ile Tyr Leu Ser Glu Val Glu Asn Trp Cys Pro
 130 135 140

His Leu Pro Trp Arg Ala Lys Asn Pro Tyr Glu Glu Ala Asp His Asn
 145 150 155 160

Ser Leu Ala Glu Ile Leu Gln Ile Phe Asn Ile Leu Tyr Ser Met Met
 165 170 175

Lys Lys Ala

<210> 6832

<211> 61

<212> PRT

<213> Homo sapiens

<400> 6832

Ala Cys Arg Asp Val Arg Arg Leu Ser Leu Ser Val Met Ala Leu Lys
 1 5 10 15

Glu Gln Thr Ile Pro Pro Ser Ala Lys Tyr Gly Gly Arg His Thr Val
 20 25 30

Thr Met Ile Pro Gly Asp Gly Ile Gly Pro Glu Leu Met Leu His Val
 35 40 45

Lys Ser Val Phe Arg His Ala Cys Val Thr Ser Gly Leu
 50 55 60

<210> 6833

<211> 33

<212> PRT

<213> Homo sapiens

<400> 6833

Gln Lys Leu Ala Pro Ile Ser Ile Ile Tyr Gln Ile Ser Pro Ser Leu

6058

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu Ser Ile Ile Ala Gly | | | |
| | 20 | 25 | 30 |

Ser

<210> 6834

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6834

| | | | |
|---|---|----|----|
| Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met | | | |
| 1 | 5 | 10 | 15 |

| | |
|---|----|
| Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe | |
| 20 | 25 |

<210> 6835

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6835

| | | | |
|---|---|----|----|
| Xaa Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser | | | |
| 1 | 5 | 10 | 15 |

| |
|---------------------|
| Ile Thr His Ile Xaa |
| 20 |

<210> 6836

<211> 29

<212> PRT

6059

<213> Homo sapiens

<400> 6836

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met
 1 5 10 15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe
 20 25

<210> 6837

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6837

Leu Thr Pro Leu Ile Pro Ser Thr Leu Xaa Ser Leu Gly Xaa Leu Pro
 1 5 10 15

Pro Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr
 20 25 30

Thr Asn Xaa Ser Leu Ile Ile Pro Thr Ile Xaa Xaa His Ile Thr Ser
 35 40 45

6060

Leu Asn Ser Asn Ser Asn Tyr Ala
 50 55

<210> 6838

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6838

Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys
 1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe
 20 25 30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu
 35 40 45

Leu Leu Pro Leu Pro
 50

<210> 6839

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6839

Ser Xaa Thr Gly Ala Val Ile Leu Ile Ile Ala His Gly Leu Thr Ser
 1 5 10 15

Ser Leu Leu Phe Cys Leu Ala Asn Ser Asn Tyr Glu Arg Thr His Arg
 20 25 30

6061

Arg Xaa Ile Ile Leu Ser Gln Gly Leu Gln Thr Leu Leu Pro Leu Ile
35 40 45

Xaa Phe
50

<210> 6840

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6840

Ile Ile Met Ala Ile Xaa Ile Lys Leu Gly Ile Ala Pro Phe His Phe
1 5 10 15

<210> 6841

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

6062

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

6063

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6841

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Ser | Lys | Val | Pro | Leu | Gln | Xaa | Asn | Phe | Gln | Asp | Asn | Gln | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Lys | Trp | Tyr | Val | Val | Gly | Leu | Ala | Xaa | Asn | Ala | Ile | Leu | Arg |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Lys | Asp | Pro | Gln | Lys | Met | Tyr | Ala | Thr | Ile | Tyr | Glu | Leu | Lys |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Xaa | Ser | Tyr | Asn | Val | Thr | Ser | Val | Leu | Phe | Xaa | Lys | Lys | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Asp | Tyr | Trp | Ile | Xaa | Thr | Phe | Val | Pro | Xaa | Cys | Xaa | Pro | Gly | Glu |
| 65 | | | | 70 | | | | | 75 | | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Leu | Gly | Asn | Ile | Xaa | Xaa | Tyr | Pro | Gly | Leu | Thr | Xaa | Tyr | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Val | Val | Xaa | Thr | Thr | Thr | Thr | Ser | Met | Leu | Trp | Cys | Ser | Ser |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Phe | Leu | Xaa | Thr | Xaa | Asn | Ser | Ser | Xaa | Ser | Pro | Leu | Xaa | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Glu | Leu | Asp | Phe | Arg | Asn | Leu | Lys | Glu | Lys | Leu | Pro | Pro | Pro |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Asn | Ser | Pro | Gly | Pro | Pro |
| 145 | | | | | 150 | | |

<210> 6842

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6064

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6842

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Met | Ser | Cys | His | Gly | Leu | Gly | Arg | Thr | Glu | Ser | Asn | Arg | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Pro | Trp | Pro | His | Leu | Val | Gln | His | Arg | Arg | Pro | Lys | Pro |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Ser | Pro | Leu | Ser | Pro | Thr | His | Leu | Ser | Leu | Pro | Arg | Lys | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Cys | Asp | Tyr | Trp | Ile | Arg | Thr | Phe | Val | Pro | Xaa | Cys | Gln | Pro | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Thr | Leu | Gly | Asn | Ile | Xaa | Ser | Tyr | Pro | Gly | Leu | Thr | Ser | Tyr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Arg | Met | Val | Ser | Thr | Asn | Tyr | Asn | Gln | His | Ala | Met | Val | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

6065

Xaa Xaa Lys Val Ser Xaa Asn Arg Glu Val Leu Xaa Glu His Leu Leu
100 105 110

Xaa Glu Asn Gln
115

<210> 6843
<211> 70
<212> PRT
<213> Homo sapiens

<400> 6843
Arg Thr Gly Arg Trp Gly Gln Glu Met Val Leu Leu Ser Thr Leu Gly
1 5 10 15

Ile Val Phe Gln Gly Glu Gly Pro Pro Ile Ser Ser Cys Asp Thr Gly
20 25 30

Thr Met Ala Asn Cys Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly
35 40 45

Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys
50 55 60

Gly Ser Ala Leu Leu Val
65 70

<210> 6844
<211> 138
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

6066

<400> 6844

Leu Glu Ala Leu Phe Ser Asp Val Asn Met Gln Glu Tyr Pro Asp Leu
 1 5 10 15
 Ile His Ile Tyr Lys Gly Phe Glu Asn Val Ile His Asp Lys Leu Pro
 20 25 30
 Leu Gln Glu Ser Glu Glu Glu Glu Arg Glu Glu Arg Ser Gly Leu Gln
 35 40 45
 Leu Ser Leu Glu Gln Gly Thr Gly Glu Asn Ser Phe Arg Ser Leu Thr
 50 55 60
 Trp Pro Pro Ser Gly Ser Pro Ser His Ala Gly Thr Thr Pro Pro Glu
 65 70 75 80
 Asn Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys
 85 90 95
 Arg Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln
 100 105 110
 Thr Asn Glu Gln Cys Ala Gln Lys Ala Xaa Pro Thr Glu Val Cys Glu
 115 120 125
 Pro Ile Xaa Xaa Pro Ser Glu Ile Trp Gly
 130 135

<210> 6845

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6845

Val His Leu Thr Lys Gly Xaa Lys Ala Gly Ala Pro Pro Arg Cys Gly
 1 5 10 15
 Arg Ser Arg Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp

6067

```

                20                25                30
Ser Val Leu Arg Gly Cys Ser Leu Glu Gln Arg Ser Phe Ile Ser Val
      35                40                45

Arg Leu Leu Ser Tyr Leu Ser Ala Cys Arg His Pro Met Glu Asp Ser
      50                55                60

Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly
      65                70                75                80

Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp
      85                90                95

Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly
      100                105                110

Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Xaa
      115                120                125

Gly Ser Pro Leu Lys
      130

```

<210> 6846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6846

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Ser | Arg | Glu | His | Glu | Ile | Asp | Gly | Arg | Ser | Ile | Ser | Leu | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Thr | Gly | Glu | Lys | Gly | Gln | Asn | Gln | Asp | Tyr | Arg | Gly | Gly | Lys | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ser | Thr | Trp | Ser | Gly | Glu | Ser | Lys | Thr | Leu | Val | Leu | Ser | Asn | Leu | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Tyr | Ser | Ala | Thr | Glu | Glu | Thr | Leu | Gln | Glu | Val | Phe | Glu | Lys | Ala | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Phe | Ile | Lys | Val | Pro | Gln | Asn | Gln | Asn | Gly | Lys | Ser | Lys | Gly | Tyr | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

6068

Phe Ile Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser
85 90 95

Cys Asn Lys Arg Glu Ile Glu Gly Arg Ala Ile Arg Leu Glu Leu Gln
100 105 110

Gly Pro Arg Gly Ser Pro Asn Ala Arg Ser Gln Pro Ser Lys Thr Leu
115 120 125

Phe Val Lys Gly Leu Ser Glu Asp Thr Thr Glu Glu Thr Leu Xaa Gly
130 135 140

Val Ile
145

<210> 6847

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

6071

Asn Pro Ala Leu Glu Leu Lys Arg Ala Thr Trp Leu Asn Ala Glu Lys
 1 5 10 15
 Asn Gly Gln Arg Pro Lys Thr Gln Leu Leu Pro Gln Lys Thr Thr Cys
 20 25 30
 Gln Lys Ile Pro Arg Asn Asn Arg Leu Met Tyr Ile His Ser Tyr Gln
 35 40 45
 Ser Tyr Val Trp Asn Asn Met Val Ser Lys Arg Ile Glu Asp Tyr Gly
 50 55 60
 Leu Asn Leu Phe Gln Gly Thr Ser Xaa Ser Lys Asp Pro Ser Pro Tyr
 65 70 75 80
 Ile Glu Glu Asp Asp Val Ile Ile Thr Leu Xaa Met Met Trp Glu Cys
 85 90 95
 Leu Ala Trp Phe Arg Trp Tyr Leu Pro Gln Ala Leu Lys Phe Lys Lys
 100 105 110
 Pro Thr Gly Lys Cys Ser Gln Leu Thr Ile
 115 120

<210> 6850

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6850

Cys Thr Ile Cys Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly
 1 5 10 15
 Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu
 20 25 30
 Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala
 35 40 45
 Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Lys
 50 55 60
 Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Ser
 65 70 75 80
 Leu

6072

<210> 6851

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6851

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Thr | Glu | Asn | Cys | Lys | Ile | Leu | Met | Thr | Lys | Ile | Lys | Glu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Asn | Lys | Trp | Arg | Asn | Ile | Pro | Cys | Ser | Trp | Ile | Gly | Arg | Leu |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Leu | Asn | Cys | His | Phe | Ser | Pro | Asp | Gly | Ser | Thr | Glu | Ser | Thr |
| | 35 | | | | | | 40 | | | | | 45 | | | |

<210> 6852

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

6073

<400> 6852

Ala Ala Ala Ala Ala Arg Arg Asp Ala Ala Glu Val Phe Leu Val Ser
1 5 10 15
Asp Pro Ser Gly Arg Met Val Lys Ser Ser Leu Gln Arg Ile Leu Asn
20 25 30
Ser His Cys Phe Ala Arg Glu Lys Glu Gly Asp Lys Pro Ser Ala Thr
35 40 45
Ile His Ala Xaa Arg Thr Met Pro Leu Leu Ser Leu His Xaa Pro Xaa
50 55 60

<210> 6853

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6853

Lys Gln Ser Pro Glu Leu Val Lys Lys His Lys Lys Lys Arg Val Val
1 5 10 15
Pro Lys Lys Pro Pro Pro Ser Pro Gln Pro Thr Gly Lys Ile Glu Ile
20 25 30
Lys Ile Val Arg Pro Trp Ala Glu Gly Thr Glu Glu Gly Ala Arg Trp
35 40 45
Leu Thr Asp Glu Asp Thr Arg Asn Leu Lys Glu Ile Phe Phe Asn Ile
50 55 60
Leu Val Pro Gly Ala Glu Glu Ala Gln Lys Glu Arg Gln Arg Gln Lys
65 70 75 80
Glu Leu Glu Ser Asn Tyr Arg Arg Val Trp Gly Ser Pro Gly Gly Glu
85 90 95
Gly Thr Gly Asp Leu Asp Glu Phe Asp Phe
100 105

<210> 6854

<211> 44

<212> PRT

<213> Homo sapiens